

CONFIDENTIAL per request 6/29/77  
3-1-78 - Confidential status released

# FILE NOTATIONS

Entered in NID File

Entered On S R Sheet

Location Map Pinned

Card Indexed

IWR for State or Fee Land

Checked by Chief

Copy NID to Field Office

Approval Letter

Disapproval Letter

## COMPLETION DATA

Date Well Completed

8-1-77

OW

WW

TA

GW

OS

PA

Location Inspected

Bond released

State of Fee Land

## LOGS FILED

Driller's Log

Electric Logs (No. )

E

I

E-I

GR

GR-N

Micro

Lat

M-L

Sonic

Others

# PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING  
P. O. BOX 3093  
CASPER, WYOMING 82602  
(307) 265-1027

April 29, 1977



Mr. Cleon Feight  
State of Utah  
Department of Natural Resources  
Division of Gas & Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

Reference: PTS #44-5 Federal  
Sec. 5-T10S-R24E  
Uintah County, Utah

Dear Mr. Feight,

Enclosed for your further handling are two copies each of the following for the captioned well:

- 1) Application for Permit to Drill (Form 9-331-C)
- 2) Well Prognosis
- 3) Casing, BOP and Pressure Containment Data
- 4) 13-Point Surface Use Plan for Well Location
- 5) Surveyor Plat
- 6) Location Layout
- 7) Two topographic maps showing wellsite and vicinity

Very truly yours,

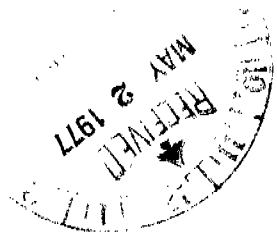
  
DEE E. BEARDSLEY  
District Manager

DEB:a

enclosure

*Schwarz  
Do we have  
a "Devil's Playground" unit #3*

*Hand not finished  
of 5/11/77 - in*



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

|  |  |  |  |  |
|--|--|--|--|--|
| 1a. TYPE OF WORK<br><b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/>  |  |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>U-1207                          |  |
| b. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> |  |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME<br>Devil's Playground             |  |
| 2. NAME OF OPERATOR<br>PACIFIC TRANSMISSION SUPPLY COMPANY   |  |  | 7. UNIT AGREEMENT NAME<br>Devil's Playground                           |  |
| 3. ADDRESS OF OPERATOR 633 17th Street<br>Denver, CO 80202   |  |  | 8. FARM OR LEASE NAME  |  |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*<br>At surface 772' FEL and 651' FSL of Sec. 5 SE SE<br>At proposed prod. zone T10S, R24E, SLM                  |  |  | 9. WELL NO.<br>PTS 44-5 Federal  |  |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*  |  |  | 10. FIELD AND POOL, OR WILDCAT<br>Wildcat                              |  |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  |  |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>Sec. 5, T10S, R24E |  |
| 16. NO. OF ACRES IN LEASE<br>1,886.07  |  |  | 12. COUNTY OR PARISH<br>Uintah   |  |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL<br>320  |  |  | 13. STATE<br>Utah  |  |
| 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.   |  |  | 20. ROTARY OR CABLE TOOLS<br>Rotary                                    |  |
| 21. ELEVATIONS (Show whether DP, RT, GR, etc.)<br>5246 Ungraded Ground   |  |  | 22. APPROX. DATE WORK WILL START*<br>June 1, 1977                      |  |

| 23. PROPOSED CASING AND CEMENTING PROGRAM |                |                 |               |  |
|---|----------------|-----------------|---------------|--|
| SIZE OF HOLE                              | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT                         |
| 14-3/4"                                   | 10-3/4"        | 40.5            | 350'          | 380 Sacks                                  |
| 9-7/8"                                    | 7-5/8"         | 26.4            | 2400'         | 100 Sacks                                  |
| 6-3/4"                                    | 4-1/2"         | 11.6            | As Required   | As Required to cement productive formation |

*Approval Notice - Utah - D.O.M.*  
Operator proposes to drill a 6500' well to penetrate the Mesaverde formation. Should commercial shows of oil or gas be found, a 4-1/2" string will be run and cemented. The well will be drilled according to the attached prognosis and BOP equipment will be maintained at all times while drilling according to the pressure containment plan attached.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED E. W. GUYNN TITLE Engineer DATE 4/26/77  
(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

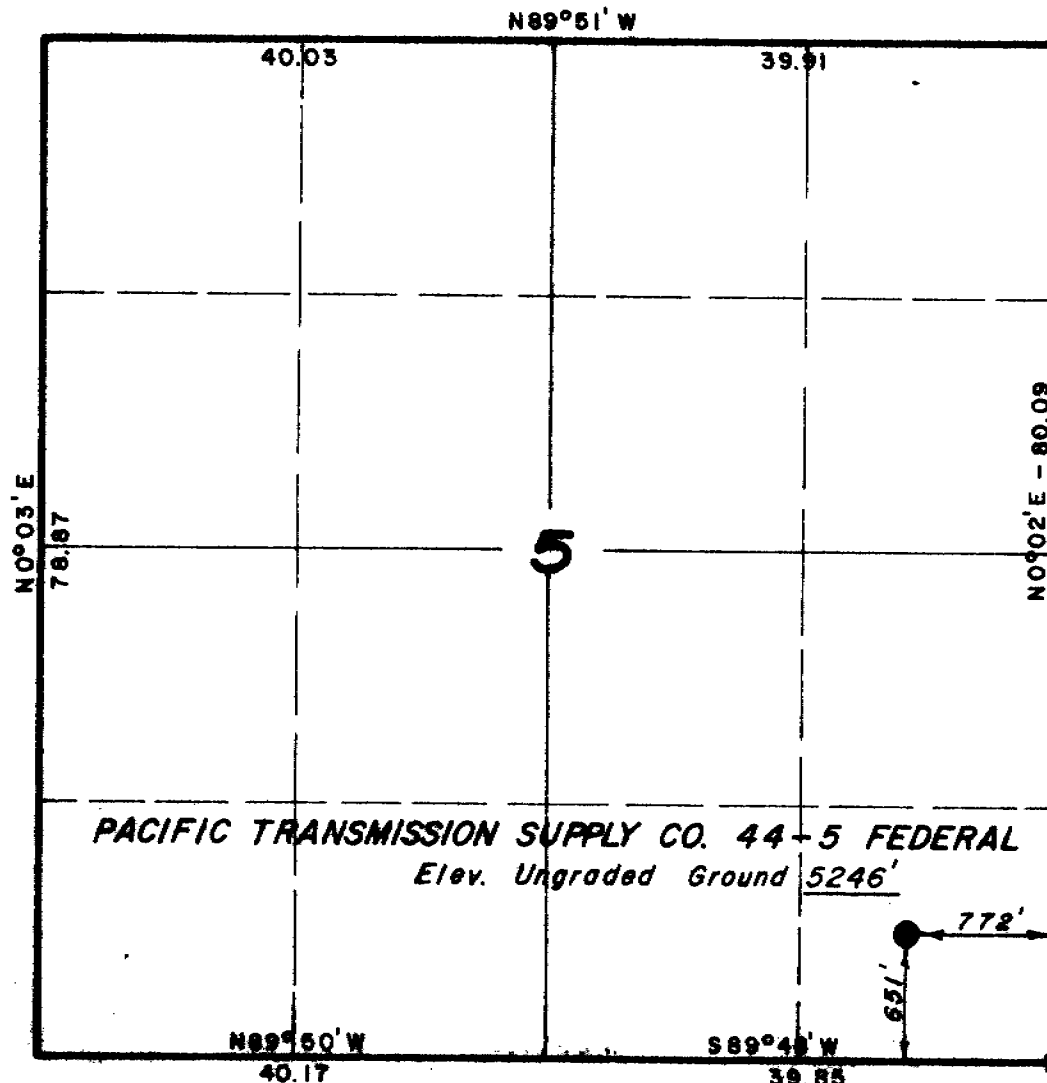
(ORIG. SGD.) E. W. GUYNN TITLE DISTRICT ENGINEER DATE JUN 13 1977  
APPROVED BY \_\_\_\_\_ CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

**TIOS, R24E, S.L.B. & M.**

PROJECT

PACIFIC TRANSMISSION SUPPLY CO.

Well location, *PACIFIC TRANSMISSION SUPPLY CO. 44-5 FEDERAL*, located as shown in the SE 1/4 SE 1/4 Section 5, TIOS, R24E, S.L.B. & M., Uintah County, Utah.



W. 1/4 Cor.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

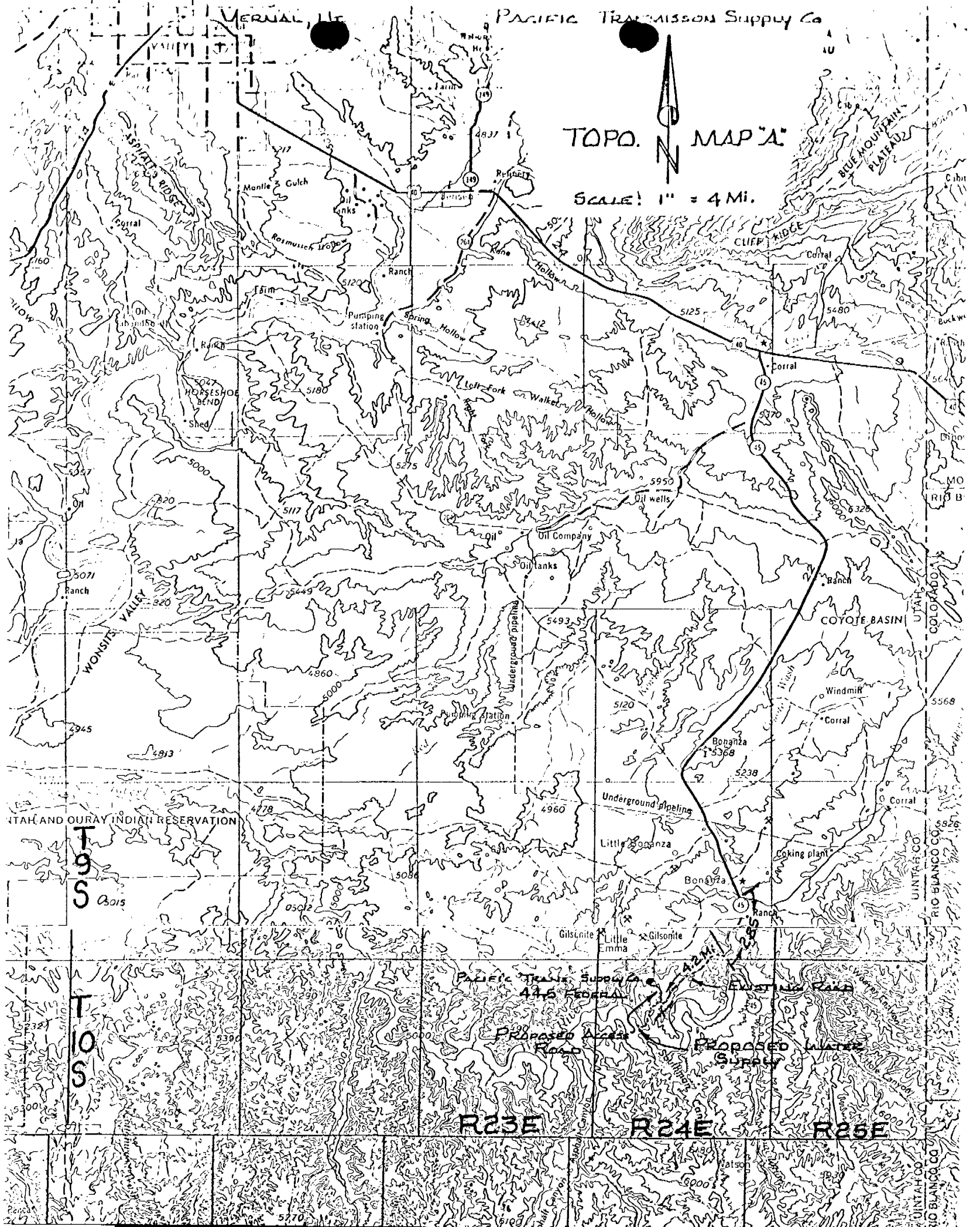
*Helmut J. Marshall*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 2454  
STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
P. O. BOX Q - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

X = Corners Found & Used (Brass Caps)

|                        |   |
|------------------------|---|
| SCALE<br>1" = 1000'    | DATE<br>22 April 1977                   |
| PARTY<br>L.D.T. & J.L. | REFERENCES<br>GLO Plats                 |
| WEATHER<br>Warm        | FILE<br>Pacific Transmission Supply Co. |

SCALE! 1" = 4 Mi.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

## 1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

## b. TYPE OF WELL

OIL  
WELL ☐GAS  
WELL ☒

OTHER

SINGLE  
ZONE ☐MULTIPLE  
ZONE ☐

## 2. NAME OF OPERATOR

PACIFIC TRANSMISSION SUPPLY COMPANY

## 3. ADDRESS OF OPERATOR

633 17th Street  
Denver, CO 80202

## 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*

At surface

772' FEL and 651' FSL of Sec. 5

At proposed prod. zone

T10S, R24E, SLM

## 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*

## 15. DISTANCE FROM PROPOSED\*

LOCATION TO NEAREST  
PROPERTY OR LEASE LINE, FT.  
(Also to nearest drlg. unit line, if any)

## 16. NO. OF ACRES IN LEASE

1,886.07

17. NO. OF ACRES ASSIGNED  
TO THIS WELL

320

18. DISTANCE FROM PROPOSED LOCATION\*  
TO NEAREST WELL, DRILLING, COMPLETED,  
OR APPLIED FOR, ON THIS LEASE, FT.

## 19. PROPOSED DEPTH

6500'

## 20. ROTARY OR CABLE TOOLS

Rotary

## 21. ELEVATIONS (Show whether DF, RT, GR, etc.)

5246 Ungraded Ground

## 22. APPROX. DATE WORK WILL START\*

June 1, 1977

## 23.

## PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT                         |
|--------------|----------------|-----------------|---------------|--|
| 14-3/4"      | 10-3/4"        | 40.5            | 350'          | 380 Sacks                                  |
| 9-7/8"       | 7-5/8"         | 26.4            | 2400'         | 100 Sacks                                  |
| 6-3/4"       | 4-1/2"         | 11.6            | As Required   | As Required to cement productive formation |

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## 24.

SIGNED

TITLE Engineer

DATE 4/26/77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions On Reverse Side

WELL PROGNOSIS  
PTS 44-5 Federal  
Proposed Devil's Playground Unit Well

Location: 772' from East Line  
651' from South Line  
SESE Section 5, T10S, R24E, SLM, Uintah County, Utah

The PTS 44-5 Federal will be drilled by PTS as the unit well in the proposed Devil's Playground Unit in the Southeast Red Wash Prospect. Drilling is scheduled to begin in early June of 1977.

OPERATOR: Pacific Transmission Supply Company  
LEASE: U-1207  
ELEVATION: 5246 Ungraded Ground  
DRILLING CONTRACTOR: Anderson Drilling Company

FORMATION TOPS AND DATUM

| <u>FORMATION</u>     | <u>DEPTH</u> | <u>SUB-SEA DATUM</u> |
|----------------------|--------------|----------------------|
| Kelly Bushing (Est.) | 5258'        |                      |
| Green River          | 1188'        | +4070                |
| H Marker             | 2388'        | +2870                |
| Wasatch              | 3603'        | +1655                |
| Y Marker             | 4758'        | + 500                |
| Mesaverde            | 5108'        | + 150                |
| Total Depth          | 6500'        | -1242                |

SAMPLE COLLECTION

10' samples from under surface to TD. Samples will be collected by drilling crew for the wellsite geologist.  
One cut of samples will be sent to Amstrat  
One cut of samples in the Green River Section (only) will be sent to the Bureau of Mines, Laramie, Wyoming.

LOGGING PROGRAM

Run #1 Log interval under surface casing to casing point of intermediate at approximately 2300'.  
-Dual Induction with SP  
-Bore hole compensated sonic with gamma ray and hole caliper  
-Compensated Formation Density with gamma ray and hole caliper

Run #2 Log interval under intermediate casing point to total depth. Use same logs as Run #1.

MUD LOGGING

Portable mud logging unit operated by wellsite geologist. Mud logging unit should be in operation from below surface casing.

DRILL STEM TESTING

2 DSTs are scheduled, one in the Wasatch formation and one in the Mesaverde. Use floor manifold with 6" positive choke, nipple, jars, safety joint, reverse sub, sample chamber and dual packers. Sample of all fluids recovered shall be collected for analysis.

DST Schedule: Initial open 10 min.  
Initial shut in 60 min.  
Second open 90 min.  
Final shut in 180 min.



## MUD PROGRAM

| <u>Interval<br/>Feet</u> | <u>Mud Weight<br/>lb/gal.</u> | <u>Viscosity<br/>Sec/Qt.</u> | <u>Fluid Loss<br/>ML/30 Min.</u> | <u>Mud<br/>Type</u>         |
|--------------------------|-------------------------------|------------------------------|----------------------------------|-----------------------------|
| 0-350                    | 8.5                           | 35-50                        | No Control                       | Spud                        |
| 350-2400                 | 8.4-8.7                       | 26-29                        | No Control                       | Water/floculent             |
| 2400-5000 (top KMV)      | 8.7-9.0                       | 26-29                        | No Control                       | Salt Water<br>60-80,000 PPM |
| 5000-TD                  | 9.2-9.5                       | 35-45                        | 12cc/less                        | Salt mud<br>60,000 PPM      |

Mud system from under surface to TD to contain approximately 180 PPM nitrates to verify filtrate water.

## DRILLING PROGRAM

- 1) Move in percussion air drilling rig and drill 14-3/4" hole for surface casing. Set surface and WOC. Surface to be 10-3/4", 40.5 #/Ft, K55. Air compressors and a booster should be on standby and rigged up to areate the mud system in the event loss ciruculation occurs. ARRANGEMENTS FOR AIR EQUIPMENT SHOULD BE CONFIRMED A MINIMUM OF 30 DAYS IN ADVANCE OF SPUD DATE.
- 2) Move on main drilling rig and drill out front under 10-3/4" casing with 9-7/8" hole to 2400'. Log and prepare hole for intermediate casing.
- 3) Set 2400' of 7-5/8", 26.4 #/Ft., K55 Casing, WOC.
- 4) Drill out from under 7-5/8" casing with 6-3/4" hole to TD. Log and evaluate well.
- 5) In the event that the Mesaverde and/or Wasatch is found productive, a string of 4-1/2", 11.6 lb/Ft., K55 casing will be run and cemented across the potential zones.
- 6) Release rig and develop completion procedure.

NOTE: The cost estimate for this well anticipates drilling the well to 6500' to test the Mesaverde, but recognizes the greatest potential for completion is in the Wasatch formation. The AFE therefore was estimated with a Wasatch completion in mind. Additional money will be required should a Mesaverde completion be attempted which requires MHF treatment.

## PERSONAL AND MAILING INFORMATION

### WELLSITE GEOLOGIST

Dee E. Beardsley  
Pacific Transmission Supply Co.  
P.O. Box 3093  
Casper, Wyoming 82601  
Telephone: Office (307) 265-1027  
Home (307) 234-7666

### ENGINEER

B.W. Allen  
P.O. Box 2352  
Casper, Wyoming 82601  
Telephone: Office (307) 234-3571  
Home (307) 237-9023

## NOTIFICATION OF SHOWS, DST'S UNUSUAL PROBLEMS

|                  |                | <u>Home</u>    |
|------------------|----------------|----------------|
| Dee E. Beardsley | (307) 265-1027 | (307) 234-7666 |
| Jack Wroble      | (303) 571-1662 | (303) 798-6175 |
| Sam Boltz        | (303) 573-5858 | (303) 355-4881 |
| B.W. Allen       | (307) 234-3571 | (307) 237-9023 |

DISTRIBUTION OF INFORMATION

PACIFIC TRANSMISSION SUPPLY COMPANY  
First of Denver Plaza  
633 17th Street, Suite 2140  
Denver, CO 80202  
Attention Mr. J. L. Wroble

CHORNEY OIL COMPANY  
401 Lincoln Tower Building  
Denver, CO 80203  
Attention Mr. Sam Boltz

DIVISION OF OIL, GAS & MINING  
1588 West  
North Temple  
Salt Lake City, UT 84116  
Attention Patrick L. Driscoll  
Chief Petroleum Engineer

PACIFIC TRANSMISSION SUPPLY COMPANY  
P.O. Box 3093  
Casper, WY 82601  
Attention Mr. Dee E. Beardsley

MR. B. W. ALLEN  
P.O. Box 2352  
Casper, WY 82601

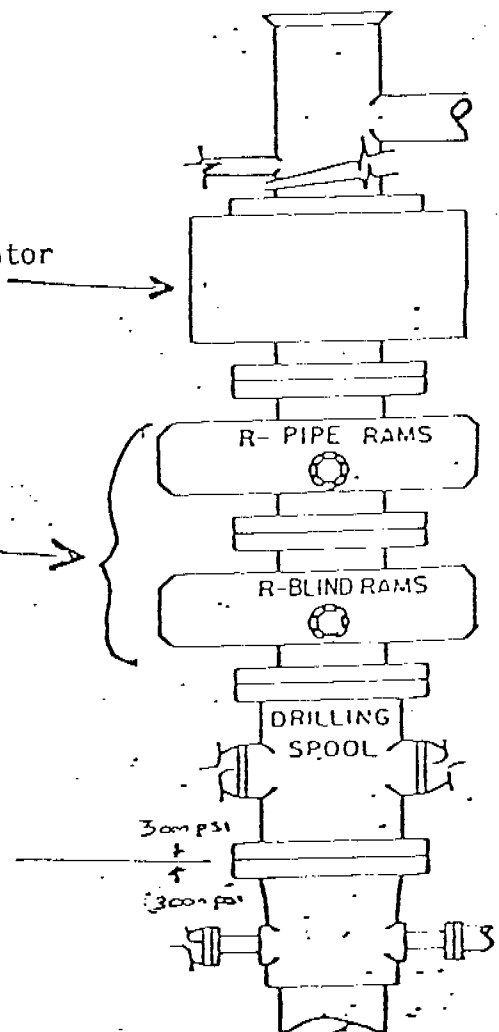
U.S. GEOLOGICAL SURVEY  
8426 Federal Building  
Salt Lake City, UT 84138  
Attention Edgar W. Guynn  
District Engineer

CASING, BOP AND PRESSURE CONTAINMENT DATA

1. Surface casing: 10-3/4", 350' K55, 40.5#/Ft., new.  
Casing will be set and cemented to surface. WOC 12 hours.
2. Casing heads, flanges and spools: All casing heads flanges and spools to be 900 series or stronger. The christmas tree to be installed, if required, will be at 3000 psi W.P.
3. Production casing: 4-1/2" as required J55, 11.6#/Ft., LTC, new.  
Casing will be set and cemented through productive formations. WOC a minimum of 12 hours.
4. Blowout Preventer: The rig to be used on the location will be equipped with a 10" - 900 series doublegate BOP and a Hydril, 900 series BOP. See below.  
Blow Out Preventers shall be mechanically checked at least once per day while drilling.
5. Auxiliary equipment to be used:  
Lower kelly cock, open stabbing floor valve, 2-1/2" choke manifold, 3000 psi W.P. or better.
6. Formation pressure anticipated is 2900 to 3000 psi.
7. Drilling fluid: Salt water & salt water base low solids mud system. Rig will be equipped with a degasser through expected gas bearing zones.

10" Annular Preventor  
900 series

10"  
900 Series  
Doublegate

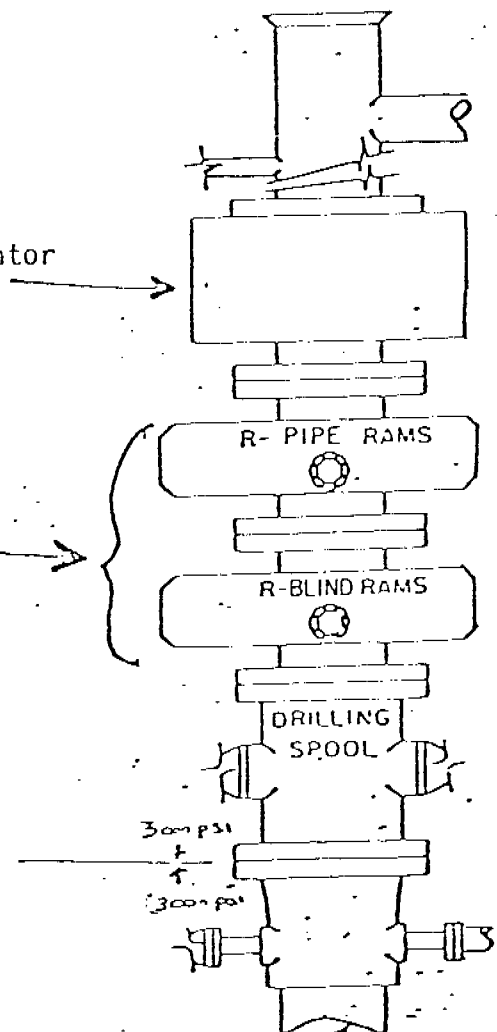


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ZONE ☐

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Denver, CO 80202

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At proposed prod. zone

T10S, R24E, S1M

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June 1, 1977

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24.

SIGNED

TITLE

Engineer

DATE 4/26/77

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

PACIFIC TRANSMISSION SUPPLY COMPANY

13 Point Surface Use Plan

for

Well Location

Pacific Transmission Supply Company 44-5 Federal

Section 5, T10S, R24E, S.L.B.&M.

Uintah County, Utah

Pacific Transmission Supply Co.  
Pacific Transmission Supply Co. 44-5 Federal  
Section 5, T10S, R24E, S.L.B. & M.

### 1. EXISTING ROADS

See Topographic Map "A".

To reach Pacific Transmission Supply Co. well location, Pacific Transmission Supply Co., 44-5 Federal located in Section 5, T10S, R24E, S.L.B. & M. Uintah County, Utah from Vernal, Utah, proceed east from Vernal along U. S. Highway 40 - 24.0 miles to the junction of this highway and Utah State Highway 45; proceed along Utah State Highway 45- 22 miles to Bonanza, Utah at which point Utah State Highway 45 changes from a hard surface to an improved dirt road; proceed south along Utah State Highway 45 - 2.85 miles to the junction of this highway and a dirt road that exits to the west; proceed west along this road 1.25 miles to the point it forks and runs in a northwesterly direction and southwesterly direction; proceed along the southwest fork down the bottom of a canyon 2.95 miles to the point that the planned access road, to be discussed in Item #2, intersects this road.

At the present time there is no major construction along any portion of this road. However, there may be some minor grader work required the last 4.2 miles from the intersection of Utah State 45 to the proposed access road and on down the canyon 1.06 miles to the proposed water supply on the White River in order to facilitate the necessary orderly traffic flow required in the drilling, development, and production of this well.

### 2. PLANNED ACCESS ROAD

See Topographic Map "B".

There will have to be approximately 0.98 miles of new access road built to reach the proposed well location site in the SE 1/4 SE 1/4, Section 5, T10S, R24E, S.L.B. & M. from the existing road discussed in Item 1.

The grade of this road will vary from flat to 8%, but will not exceed this amount. The road will be constructed from native borrow accumulated during construction.

The small drainage in the bottom of the canyon will be forded. If deemed necessary by the agencies involved, a culvert of adequate size to handle the compacted run-off will be installed.

The terrain that is traversed by this road is up the west side of the canyon which is quite open and is vegetated with sagebrush, rabbit brush, and grasses.

### 3. LOCATION OF EXISTING WELLS

As shown on Topographic Map "B", there are no other wells within a one-mile radius of the proposed well site. (See location plat for placement of Pacific Transmission Supply Company location within the section.)

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES AND PRODUCTION GATHERING AND SERVICE LINES

All petroleum production facilities are to be contained within the proposed location site. There are no other Pacific Transmission Supply Co. flow, gathering, injection, or disposal lines within a one-mile radius of this location.

In the event production is established, plans for a gas flow line from this location to existing gathering lines or a main production line shall be submitted to the appropriate agencies for approval.

5. LOCATION AND TYPE OF WATER SUPPLY

Water used to drill this well is to be hauled from White River approximately 2.04 road miles to the south of the location site in the SE 1/4 NE 1/4 Section 17, T10S, R24E, S.L.B. & M.

If this water source is not used, then any other necessary arrangements will be made.

6. SOURCE OF CONSTRUCTION MATERIALS

All construction materials for this location site and access road shall be borrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining material from other sources are anticipated at this time.

7. METHODS FOR HANDLING WASTE DISPOSAL

All garbage and trash that can be burned, shall be burned. All unburnable garbage and trash accumulated during development of this well shall be contained in the trash pit shown on the attached Location Layout Sheet.

When drilling activities have been completed, the rig moved off the location, and production facilities set up, all garbage and trash on the location site shall be cleaned up, deposited in the trash pit, and covered with a minimum 4' of cover.

All production waste such as cuttings, salts, chemicals, overflows of condensate, water, and drilling fluids shall be contained in the west cell of the reserve pit and upon completion of drilling activities, buried with a minimum of four feet of cover.

A portable chemical toilet will be supplied for human waste. (See end paragraph in Item No. 10.)

8. ANCILLARY FACILITIES

There are no ancillary facilities planned for at the present time and none foreseen in the near future.



9. WELL SITE LAYOUT

See attached Location Layout Sheet. The Bureau of Land Management District Manager or other appropriate agencies shall be notified before any construction begins on the proposed location site. When drilling activities commence, all work shall proceed in a neat and orderly sequence.

10. PLANS FOR RESTORATION OF SURFACE

Any drainages re-routed during the construction activities shall be restored to their original line of flow as near as possible. Fences around pits are to be removed upon completion of drilling activities and all waste being contained in the trash pit shall be buried with a minimum of 4' of cover. The reserve pit will be completely fenced and allowed to dry before covering. Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days.

When restoration activities have been completed, the location site and access ramp shall be reseeded with a seed mixture recommended by the B.L.M. District Manager when the moisture content of the soil is adequate for germination. The lessee further covenants and agrees that all of said cleanup and restoration activities shall be done and performed in a diligent and most workmanlike manner and in strict conformity with the above mentioned items No. 7 and 10.

11. OTHER INFORMATION

Topography of the General Area (See Topo. Map "A").

The topography of the general area slopes from the rim of the Blue Mountain to the north to the White River to the south, being a part of what is known as the Eastern Portion of the Uintah Basin. The area is interlaced with numerous canyons and ridges which are extremely steep, with numerous ledges formed in sandstones, conglomerates, and shale deposits.

Soils in this semi-arid area are of the Uinta Formation (Eocene) and a member of the Quaternary Era which is a Ogs and consists of light brownish-gray clays (OL) to sandy soils (SM-ML) with poorly graded gravels and shale outcrops.

Outcrops of sandstone ledges, conglomerate deposits, and shale are common in this area.

The top soils in the area range from sandy clay (SM-ML) type soil to a clayey (OL) type soil.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare as the normal annual rainfall in the area is only 8".

11. OTHER INFORMATION (Continued)

White River is the major drainage that this location affects and is a perennial stream.

Due to the low precipitation average, climate conditions and the marginal types of soils, the vegetation that is found in the area is common of the semi-arid region we are located in and in the lower elevations, it consists of juniper and pinion forests as the primary flora with areas of shadescale, scrub oak, sagebrush, rabbit brush, bitter brush, some grasses, and cacti.

The fauna of the area consists predominately of the mule deer, Pronghorn Antelopes, coyotes, rabbits, and varieties of small ground squirrels and other types of rodents. The area is used by man for the primary purpose of grazing domestic sheep and cattle.

The birds of the area are raptors, finches, ground sparrows, magpies, crows, and jays.

The Topography of the Immediate Area (Topo. Map "B")

Pacific Transmission Supply Co. 44-5 Federal, lies approximately 300' east of a small drainage that forms a non-perennial drainage and is a tributary to the White River.

The majority of all the drainages in the area run in a southwesterly direction extending down from the summit that separates the White River drainage to the south and the Kennedy Wash drainage to the north.

The terrain rises sharply from the White River to the south onto the bench area. The location is located on the north through the location and then rises sharply to the summit of the ridge that separates the White River drainage and the Kennedy Wash drainage to the north.

The terrain in the immediate vicinity of the location slopes to the southeast and slopes through the location site at approximately a 6% grade.

The geologic structure of the location is a member of the Uintah Formation and consists of a light brownish-gray sandy clay (SP-CL) with some mudstone deposits.

The vegetation in the immediate area surrounding the location site is predominately sagebrush and grasses.

There are no occupied dwellings or other facilities of this nature in the general area.

There are no visible archaeological, historical, or cultural sites within any reasonable proximity of the proposed location site. (See Topographic Map "B".)

Pacific Transmission Supply Co.  
Pacific Transmission Supply Co. 44-5 Federal  
Section 5, T10S, R24E, S.L.B. & M.

12. LESSEE'S OR OPERATOR'S REPRESENTATIVE

Dee E. Beardsley  
212 Goodstein Building  
330 South Center Street  
P. O. Box 3093  
Casper, Wyoming 82602

Tel: 307/265-1027

13. CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Pacific Transmission Supply Co. and its contractors and sub-contractors in conformity with this plan and terms and conditions with this plan and the terms and conditions under which it is approved.

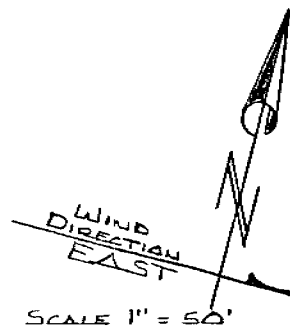
April 29, 1977

Date

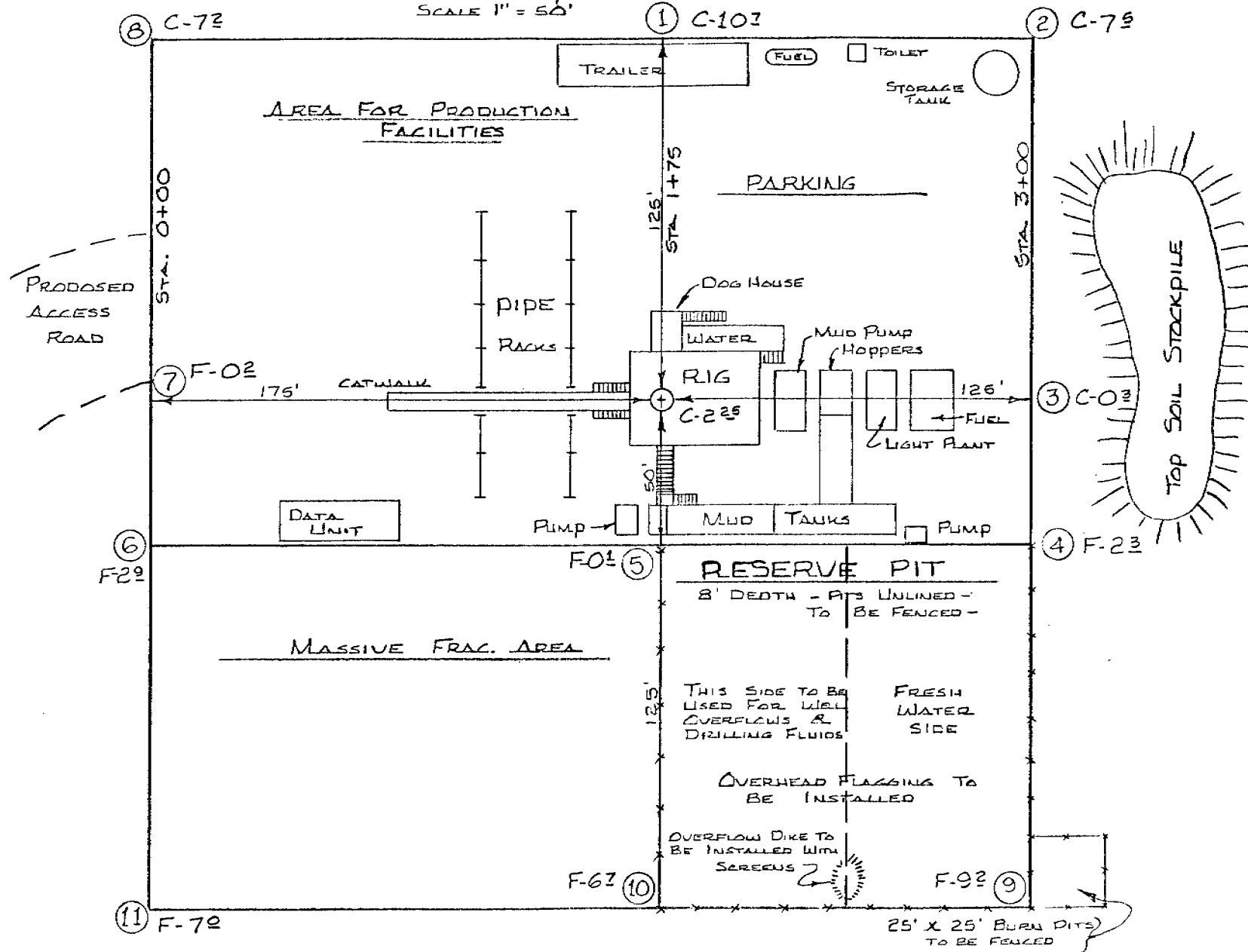
  
DEE E. BEARDSLEY

District Manager  
Title

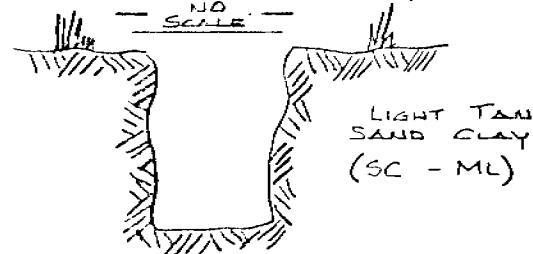
PACIFIC TRANSMISSION SUPPLY CO.  
PACIFIC TRANSMISSION SUPPLY CO. 44-5 FED.  
LOCATION LAYOUT SHEET



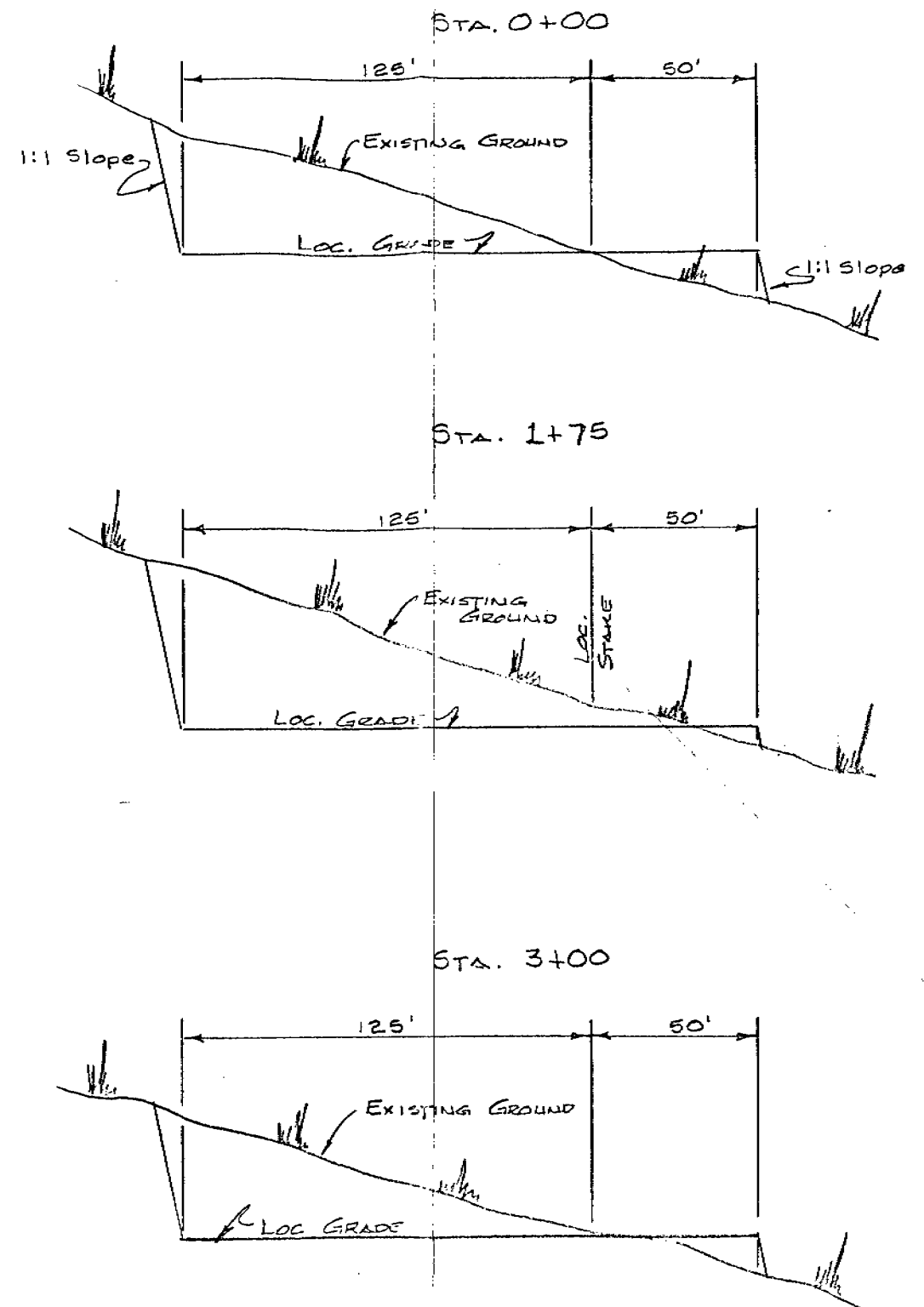
SCALE 1" = 50'



SOILS LITHOLOGY



CROSS SECTIONS



APPROX. YARDAGES

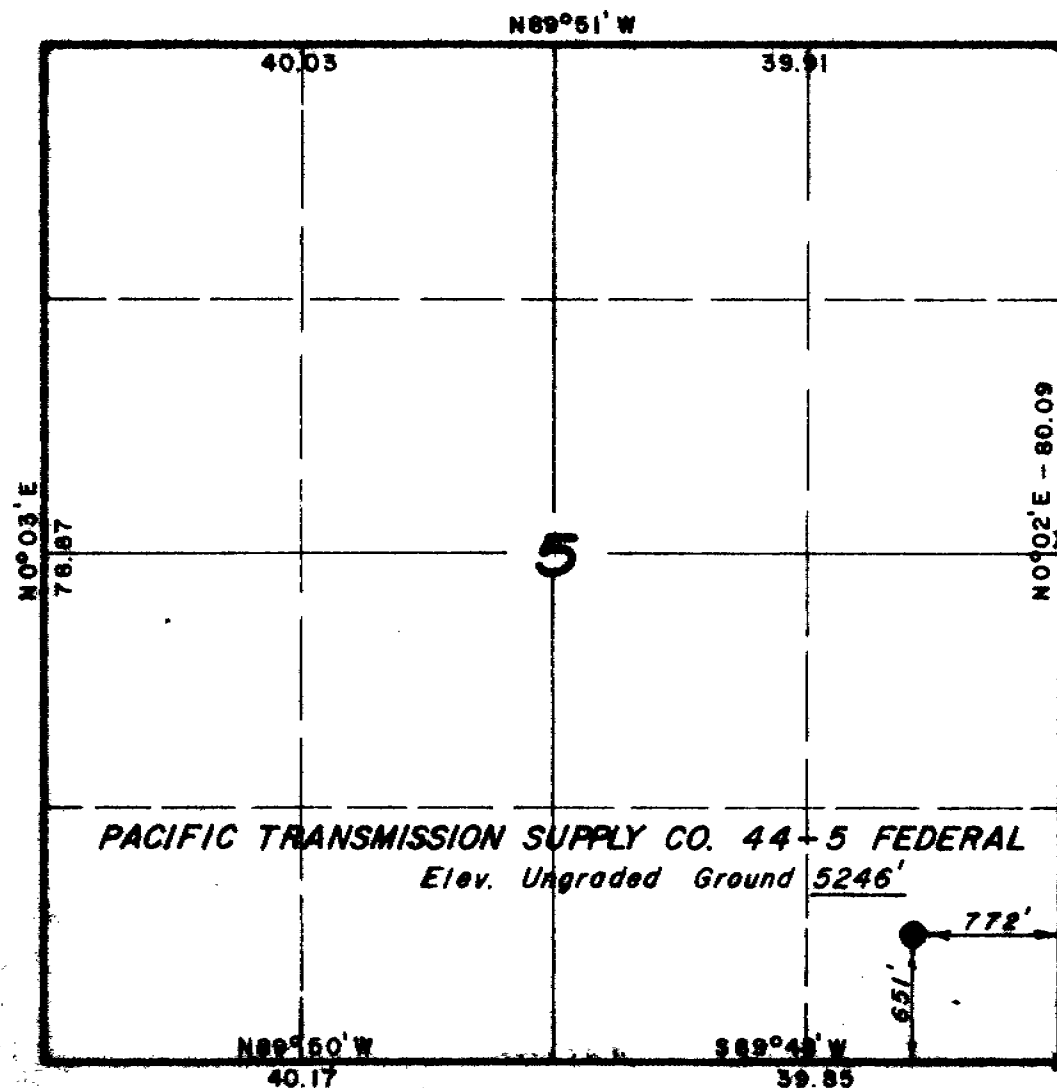
FILL ---- 3,720 cu. Yds.  
CUT ---- 7,850 cu. Yds.

1" = 10'

SCALES

1" = 50'

# T10S, R24E, S.L.B. & M.



## PROJECT

### PACIFIC TRANSMISSION SUPPLY CO.

Well location, *PACIFIC TRANSMISSION SUPPLY CO. 44-5 FEDERAL*, located as shown in the SE 1/4 SE 1/4 Section 5, T10S, R24E, S.L.B. & M., Uintah County, Utah.

W. 1/4 Cor.



## CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*John J. Marshall*  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 2454  
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING  
P.O. BOX 9 - 110 EAST - FIRST SOUTH  
VERNAL, UTAH - 84078

X = Corners Found & Used (Brass Caps)

|                        |   |
|------------------------|---|
| SCALE<br>1" = 1000'    | DATE<br>22 April 1977                   |
| PARTY<br>L.D.T. & J.L. | REFERENCES<br>GLO Plats                 |
| WEATHER<br>Warm        | FILE<br>Pacific Transmission Supply Co. |

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

\*\* FILE NOTATIONS \*\*

Date: May 4  
Operator: Pacific Transmission Supply Co.  
Well No: PTS 44-5 Fed.  
Location: Sec. 5 T. 10S R. 24E County: Uintah

File Prepared

☒

Entered on N.I.D.

API No ☒

☒

Card Indexed

☒

Completion Sheet

☒

CHECKED BY:

Administrative Assistant

[Signature]

Remarks:

No other wells in Sec. 5

Petroleum Engineer

PLD

Remarks:

Director

7

Remarks:

INCLUDE WITHIN APPROVAL LETTER:

Bond Required

[Signature]

Survey Plat Required

☐

Order No.

☐

Surface Casing Change to

☐

Rule C-3(c), Topographic exception/company owns or controls acreage within a 660' radius of proposed site ☐

O.K. Rule C-3

☒

O.K. In

Unit ☐

Other:

Unit Agreement

Letter Written/Approved

May 4, 1977

Pacific Transmission Supply Co.  
633 17th Street  
Denver, Colorado 80202

Re: Well No. PTS 44-5 Federal  
Sec. 5, T. 10 S, R. 24 E,  
Uintah County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3, General Rules and Regulations and Rules of Practice and Procedure. However, said approval shall be contingent upon forwarding a copy of the Devil's Playground Unit Agreement (unexecuted would suffice) to this Division as soon as possible.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer  
HOME: 582-7247  
OFFICE: 533-5771

Enclosed please find Form OGC-8X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this office be notified within 24 hours after drilling operations have commenced, and that the Division be notified of the drilling contractor and rig number.

The API number assigned to this well is 43-047-30280.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT  
Director

cc: U.S. Geological Survey

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-1207

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Devil's Playground Unit

8. FARM OR LEASE NAME

9. WELL NO.

PTS 44-5 Federal

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 5, T10S, R24E

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

1. OIL ☐ GAS ☐ OTHER ☒  
WELL WELL

2. NAME OF OPERATOR

PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR

633 17th Street, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface

772' FEL and 651' FSL of Sec. 5, T10S, R24E SLM

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, ST, GR, etc.)

5246 Ungraded Ground

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST/WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON\*

SHOOTING OR ACIDIZING

ABANDONMENT\*

REPAIR WELL

CHANGE PLANS

(Other)

(Other)

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any  
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones perti-  
nent to this work.)\*

Operator requests permission to change the casing design for the proposed PTS 44-5  
Federal. The new casing design is as follows:

| Size of Hole | Size of Casing | Wt. per Foot | Setting Depth | Quantity of Cement                     |
|--------------|----------------|--------------|---------------|--|
| 17-1/2"      | 13-3/8"        | 54.5#        | 350'          | Cement to surface<br>Approx. 450 sacks |
| 11"          | 8-5/8"         | 24#          | 2400'         | 150 sacks                              |
| 7-7/8"       | 4-1/2"         | 11.6#        | As Required   | As Required                            |

This is a confirming request as verbal permission was given to PTS by the USGS,  
Salt Lake City, Utah by telephone on 6/21/77.

APPROVED BY THE DIVISION OF  
OIL, GAS AND MINING

DATE: June 24, 1977

BY: [Signature]

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE

ENGINEER

DATE

6/22/77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY



3. EFFECTS ON ENVIRONMENT BY PROPOSED ACTION (POTENTIAL IMPACTS)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6) Extensive cut for new access route would increase potential erosion & visual impact.

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS. No nearby locations could be found that would justify this action. However

3) Moved Access Road from proposed route to follow a dry wash into site & moved top soil stockpile to north. (SEE ATTACHED DRAWINGS)

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

6)

6. Determination

(This requested action ~~does~~ (does not) constitute a major Federal action significantly affecting the environment in the sense of NEPA, Section 102(2) (c).

Date Inspected

5-25-77

Inspector

J. P. [Signature]

[Signature]  
U.S. Geological Survey,  
Conservation Division  
Salt Lake City District  
Salt Lake City, Utah

**U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION**

**FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH**

**TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH**

| Well  | Location  | Lease No. |
|---|---|-----------|
| Pacific Transmission<br>Supply Co. PTS 44-5 Fed.  | 772' FEL, 651' FSL, Sec. 5, T10S, R24E,<br>SLM, Uintah Co., Utah. Gr. El. 5246' | U-1207    |
| <p>1. <b>Stratigraphy and Potential Oil and Gas Horizons.</b> Well will spud in the Uinta Formation and test the underlying stratigraphy for gas potential to a proposed T.D. of 6500'. Pacific Lighting Expl. Co. No. 3 (Gr. El. 5635'), Sec. 27, T9S, R24E, reported the following tops: Green River 1240'; Wasatch 3750'; Mesaverde 5475'; Sego 7015'; Buck Tongue 7150'; T.D. 7488'. IP 831 MCFGPD from the Wasatch (4919'-4922'). PB 4980'. See, also, well prognosis on APD.</p> <p>2. <b>Fresh Water Sands.</b> No wells in the vicinity of this test. Wells in T9S, R24E, indicate fresh/usable water to depths of 1700'.</p> <p>3. <b>Other Mineral Bearing Formations.</b> (Coal, Oil Shale, Potash, Etc.) Valuable prospectively for oil shale, coal and solid and semisolid bitumens (gilsonite) Principal oil shale horizons are the Parachute Creek and Garden Gulch Members of the Green River Formation. Parachute Creek Member contains the Mahogany zone which may contain up to 35bb1/ton. Coal is found in the Mesaverde Fm. and is presently subeconomic due to excessive depth. Gilsonite veins may be encountered in this twp.</p> <p>4. <b>Possible Lost Circulation Zones.</b> Unknown</p> <p>5. <b>Other Horizons Which May Need Special Mud, Casing, or Cementing Programs.</b> Protect any fresh water aquifers penetrated.</p> <p>6. <b>Possible Abnormal Pressure Zones and Temperature Gradients.</b> Unknown</p> <p>7. <b>Competency of Beds at Proposed Casing Setting Points.</b> Probably adequate</p> <p>8. <b>Additional Logs or Samples Needed.</b> Sufficient logs to identify oil shale in the Green River Fm., and coal in the Mesaverde Fm. (IES, gamma-ray, sonic, density).</p> <p>9. <b>References and Remarks</b> Within one mile of the Southman Canyon KGS.</p> |   |           |
| <p>Date: 5-16-77<br/> <i>State of Utah</i><br/>                 Signed: <i>Thomas R. Arsenau</i></p>  |   |           |

ATTACHMENT 2-A

PACIFIC TRANS. SUP. CO  
WELL # 44-5  
SEC. 5-T10S-R24E  
U-1207  
UTAH CO., UTAH  
BLM - ROBBINS & ELLIS  
USGS - DEARTH  
PTS - DETHELFSEN

- |   |              |
|---|--------------|
| 0 | ENHANCES     |
|   | NO IMPACT    |
| / | MINOR IMPACT |
| X | MAJOR IMPACT |

| ATTACHMENT 2  |                            | Construction  | Pollution                     | Drilling Production | Transport Operations                              | Accidents                     | Others                    |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|---|----------------------------|---|-------------------------------|---------------------|---|-------------------------------|---------------------------|---------------------|---|---------------|---|--------------------|--------------------------------------|--------------------------------------|--------|--------|-----------|--------|------------------|---------------------|
| PACIFIC TRANS. SUP. CO.<br>WELL # 44-5<br>SEC. 5-T10S-R24E<br>U-1207<br>UTAH CO., UTAH<br>BLM - ROBBINS & ELLIS<br>USGS - DERRICK<br>PTS - DETKLEFSEN |                            | Roads, bridges, airports  | Transmission lines, pipelines | Dams & impoundments | Others (pump stations, compressor stations, etc.) | Burning, noise, junk disposal | Liquid effluent discharge | Subsurface disposal | Others (toxic gases, noxious gas, etc.) | Well drilling | Fluid removal (Prod. wells, facilities) | Secondary Recovery | Noise or obstruction of scenic views | Mineral processing (ext. facilities) | Others | Trucks | Pipelines | Others | Spills and leaks | Operational failure |
| <input type="checkbox"/>  | ENHANCES                   |   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
| <input type="checkbox"/>  | NO IMPACT                  |   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
| <input checked="" type="checkbox"/>   | MINOR IMPACT               |   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
| <input checked="" type="checkbox"/>   | MAJOR IMPACT               |   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
| Land Use  | Forestry                   | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Grazing                    | /   | /                             |                     |   | /                             |                           |                     |   | /             |   |                    |                                      |                                      |        | /      |           |        | /                | /                   |
|   | Wilderness                 | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Agriculture                | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Residential-Commercial     | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Mineral Extraction         | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Recreation                 | 0   |                               |                     |   | /                             | /                         | /                   | /                                       | /             | /                                       | /                  | /                                    | /                                    | /      | /      | /         | /      | /                | /                   |
|   | Scenic Views               | /   | /                             |                     |   | /                             | /                         | /                   | /                                       | /             | /                                       | /                  | /                                    | /                                    | /      | /      | /         | /      | /                | /                   |
|   | Parks, Reserves, Monuments | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Historical Sites           | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
| Flora & Fauna   | Unique Physical Features   | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Birds                      |   |                               |                     |   | /                             |                           |                     |   | /             |   |                    |                                      |                                      |        | /      |           |        | /                | /                   |
|   | Land Animals               | /   | /                             |                     |   | /                             |                           |                     |   | /             |   |                    |                                      |                                      |        | /      |           |        | /                | /                   |
|   | Fish                       | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Endangered Species         | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Trees, Grass, Etc.         | /   | /                             |                     |   | /                             |                           |                     |   | /             |   |                    |                                      |                                      |        | /      |           |        | /                | /                   |
|   | Surface Water              | N/A   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Underground Water          | ?   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Air Quality                |   |                               |                     |   | /                             |                           |                     |   | /             |   |                    |                                      |                                      |        | /      |           |        | /                | /                   |
|   | Erosion                    | /   | /                             |                     |   | /                             |                           |                     |   | /             |   |                    |                                      |                                      |        | /      |           |        | /                | /                   |
| Phy. Charact.   | Other                      |   |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |
|   | Effect On Local Economy    | 0   | 0                             |                     |   |                               |                           |                     |   | 0             |   |                    |                                      |                                      |        | 0      |           |        |                  |                     |
| Safety & Health   |                            | /   | /                             |                     |   | /                             | /                         | /                   | /                                       | /             | /                                       | /                  | /                                    | /                                    | /      | /      | /         | /      | /                | /                   |
|   | Others                     | Change Road Outg. Fee<br>& Strip Oil on EPA<br>cc: Beg. Danner<br>BLM - Denver<br>State Oil |                               |                     |   |                               |                           |                     |   |               |   |                    |                                      |                                      |        |        |           |        |                  |                     |

**CIRCULATE TO:**

DIRECTOR \_\_\_\_\_ ☒ *P*  
PETROLEUM ENGINEER \_\_\_\_\_ ☒  
MINE OPERATOR \_\_\_\_\_ ☐  
ADMINISTRATIVE ASSISTANT \_\_\_\_\_ ☐  
ALL \_\_\_\_\_ ☐

RETURN TO *Kathy D.*  
FOR FILING

June 28, 1977

MEMO TO FILE

Re: Pacific Transmission Supply Co.  
Federal 44-5  
Sec. 5, T. 10 S, R. 24 E,  
Uintah County, Utah

Pacific Transmission Supply Company provided notice that the above referred to well was spudded on June 26, 1977 at 1:30 p.m.. The Drilling Contractor is Anderson Drilling Company, rig number 10.

SCHEREE WILCOX  
ADMINISTRATIVE ASSISTANT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN THE STATE\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.

U-1207

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Devil's Playground

8. NAME OF LEASE NAME

PTS #44-5 Federal

9. FIELD AND POOL, OR WILDCAT

Wildcat

10. SEC., T., R., M., OR BLK. AND

SURVEY OR AREA

Sec. 5, T10S-R24E

11. COUNTY OR PARISH

Utah

12. COUNTY OR PARISH

Utah

13. STATE

Utah

1.

OIL WELL ☐ GAS WELL ☒ OTHER

2. NAME OF OPERATOR

PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR

633 17th Street, Suite 2140, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*

See also space 17 below.)

At surface

772' FEL and 651' FSL of Section 5

T10S-R24E, Section 5

14. PERMIT NO.

API No. 43-047-30280

15. ELEVATIONS (Show whether DP, RT, GR, etc.)

5246 Ungraded Ground

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

PLEASE HOLD CONFIDENTIAL

Spudded 1:30 p.m. 6/26/77. 20" Conductor casing set @ 153' K.B.

**CONFIDENTIAL**

18. I hereby certify that the foregoing is true and correct

SIGNED Original signed by  
J. L. WROBLE

TITLE EXPLORATION MANAGER

DATE 6/27/77

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN THE STATE\*  
(Other instructions on re-  
verse side)Form approved.  
Budget Bureau No. 42-R1424.

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

|  |  |  |
|--|--|--|
| 1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER  |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>U-1207                            |
| 2. NAME OF OPERATOR<br>PACIFIC TRANSMISSION SUPPLY COMPANY   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                     |
| 3. ADDRESS OF OPERATOR<br>633 17th Street, Suite 2140, Denver, CO 80202  |  | 7. UNIT AGREEMENT NAME<br>Devil's Playground                             |
| 4. LOCATION OF WELL (Report location clearly and in accordance with State requirements.*<br>See also space 17 below.)<br>At surface<br>772' FEL and 651' FSL of Sec. 5, T10S-R24E, S1M |  | 8. FARM OR LEASE NAME  |
| 14. PERMIT NO.<br>API No. 43-047-30280   |  | 9. WELL NO.<br>PTS #44-5 Federal   |
| 15. ELEVATIONS (Show whether DF, RT, CR, etc.)<br>5246' Ungraded Ground  |  | 10. FIELD AND POOL, OR WILDCAT<br>Wildcat                                |
|  |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>Section 5, T10S-R24E |
|  |  | 12. COUNTY OR PARISH<br>Uintah   |
|  |  | 13. STATE<br>Utah  |

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

|  |   |
|--|---|
| TEST WATER SHUT-OFF <input type="checkbox"/> | PULL OR ALTER CASING <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/>      | MULTIPLE COMPLETE <input type="checkbox"/>    |
| SHOOT OR ACIDIZE <input type="checkbox"/>    | ABANDON* <input type="checkbox"/>             |
| REPAIR WELL <input type="checkbox"/>         | CHANGE PLANE <input type="checkbox"/>         |
| (Other) <input type="checkbox"/>             | <input checked="" type="checkbox"/>           |

## SUBSEQUENT REPORT OF:

|  |  |
|--|--|
| WATER SHUT-OFF <input type="checkbox"/>        | REPAIRING WELL <input type="checkbox"/>  |
| FRACTURE TREATMENT <input type="checkbox"/>    | ALTERING CASING <input type="checkbox"/> |
| SHOOTING OR ACIDIZING <input type="checkbox"/> | ABANDONMENT* <input type="checkbox"/>    |
| (Other) <input type="checkbox"/>               |  |

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

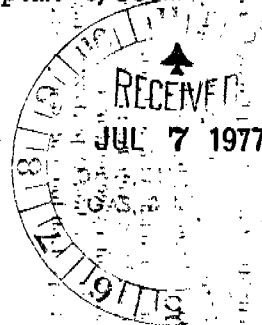
PLEASE HOLD CONFIDENTIAL

6/27/77 - Spudded @ 1:30 p.m. 6/26/77. Set 20' conductor casing @ 53' KB.  
6/28/77 - TD 222', drilling 17 1/2" surface hole.  
6/29/77 - TD 365', cementing 13-3/8" surface casing. Ran 5 jts. 13-3/8", 54.5#, J-55 surface casing, Baker float shoe & baffle plate, landed @ 365'; cemented w/300 sx Class "G" cement with 1/4# per sack Celloflake & 2% CaCl.  
6/30/77 - TD 365', completed cementing 13-3/8" csg w/300 sx Class "G" cement w/ 2% CaCl & 3% salt. Job completed @ 10:15 A.M. 6/29. WOC 8 hrs. Cut off csg & installed csg flange. Nippled up BOP equip.  
7/1/77 - TD 660', drlg. Drld out below surface casing @ 10:30 p.m. 6/30.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: July 8, 1977

BY: [Signature] Russell



18. I hereby certify that the foregoing is true and correct

SIGNED

[Signature]

TITLE EXPLORATION MANAGER

DATE 7/1/77

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPlicate\*  
(Other instructions on re-  
verse side)Form approved,  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-1207

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Devil's Playground

8. FARM OR LEASE NAME

9. WELL NO.

PTS #44-5 Federal

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 5, T10S-R24E

14. PERMIT NO.

API No. 43-047-30280

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5246' Ungraded Ground

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

☐  
☐  
☐  
☐

PULL OR ALTER CASING

☐  
☐  
☐  
☐

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other)

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

☐  
☐  
☐  
☐

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

☐  
☐  
☐  
☐(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

PLEASE HOLD CONFIDENTIAL

7/2/77 - TD 995', drlg.  
7/3/77 - TD 1390', drlg.  
7/4/77 - TD 2005', drlg.  
7/5/77 - TD 2385', drlg.  
7/6/77 - TD 2400', WO rig repairs.  
7/7/77 - " " " " "  
7/8/77 - TD 2945', drlg.

18. I hereby certify that the foregoing is true and correct

Original signed by

SIGNED J. L. WROBLETITLE EXPLORATION MANAGERDATE 7/8/77

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE\*  
(Other instructions on re-  
verse side)Form approved,  
Budget Bureau No. 42-R1424.

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

|  |  |  |
|--|--|--|
| 1. OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER  |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>U-1207                            |
| 2. NAME OF OPERATOR<br>PACIFIC TRANSMISSION SUPPLY COMPANY   |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME                                     |
| 3. ADDRESS OF OPERATOR<br>633 17th Street, Suite 2140, Denver, CO 80202  |  | 7. UNIT AGREEMENT NAME<br>Devil's Playground                             |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*<br>See also space 17 below.)<br>At surface<br>772' FEL and 651' FSL of Sec. 5, T10S-R24E, S1M |  | 8. FARM OR LEASE NAME  |
| 14. PERMIT NO.<br>API No. 43-047-30280   |  | 9. WELL NO.<br>PTS #44-5 Federal   |
| 15. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>5246' Ungraded Ground  |  | 10. FIELD AND POOL, OR WILDCAT<br>Wildcat                                |
|  |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>Section 5, T10S-R24E |
|  |  | 12. COUNTY OR PARISH<br>Uintah   |
|  |  | 13. STATE<br>Utah  |

## 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other) Weekly Report

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

## PLEASE HOLD CONFIDENTIAL

7/9/77 - TD 3151', WOC. Ran 75 jts. 8-5/8", 24#, K-55, intermediate csg with Baker guide shoe, float collar & 5 centralizers; landed csg: @ 2404' KB; cemented w/150 sx RFC cement w/1/4# per sack celloflake & 150 sx Class "G" with 1/4# per sack celloflake. Displaced slurry w/149.5 bbls fresh water. Plug down, good circulation throughout.

7/10/77 - TD 3345', drilling.

7/11/77 - TD 3808', circ & reaming to btm.

7/12/77 - TD 3910', drlg.

7/13/77 - TD 4290', drlg.

7/14/77 - TD 4630', drlg.

7/15/77 - TD 4645', working stuck pipe.

18. I hereby certify that the foregoing is true and correct

Original signed by  
SIGNED J. L. WROBLE

TITLE EXPLORATION MANAGER

DATE 7/15/77

(This space for Federal or State office use)

APPROVED BY  
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYSUBMIT IN TRIPLICATE  
(Other instructions on  
reverse side)Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-1207

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL ☐ GAS ☒ OTHER

2. NAME OF OPERATOR

PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR

633 17th Street, Suite 2140, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.  
See also space 17 below.)  
At surface

772' FEL and 651' FSL of Sec. 5, T10S-R24E, SLM

7. UNIT AGREEMENT NAME

Devil's Playground

8. FARM OR LEASE NAME

9. WELL NO.

PTS #44-5 Federal

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Section 5, T10S-R24E

14. PERMIT NO.

API No. 43-047-30280

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

5246' Ungraded Ground

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

FRACTURE TREAT

MULTIPLE COMPLETE

SHOOT OR ACIDIZE

ABANDON\*

REPAIR WELL

CHANGE PLANS

(Other) Weekly Report

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREATMENT

ALTERING CASING

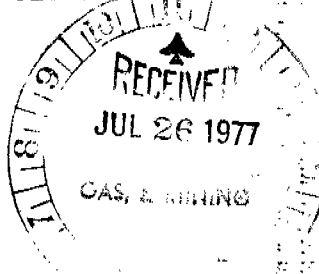
SHOOTING OR ACIDIZING

ABANDONMENT\*

(Other)

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any  
proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent  
to this work.)\*PLEASE HOLD CONFIDENTIAL

7/16/77 - TD 4645', working stuck pipe.  
7/17/77 - TD 4645', circulating & conditioning mud.  
7/18/77 - TD 4645', circulating & conditioning mud.  
7/19/77 - TD 4645', making short trip to check hole condition.  
7/20/77 - TD 4645', circulating & conditioning.  
7/21/77 - TD 4645', jarring on fish.  
7/22/77 - TD 4645', tripping.



18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE EXPLORATION MANAGER

DATE 7/22/77

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R356.5.

LAND OFFICE \_\_\_\_\_  
LEASE NUMBER U-1207  
UNIT Devil's Playground

# LESSEE'S MONTHLY REPORT OF OPERATIONS

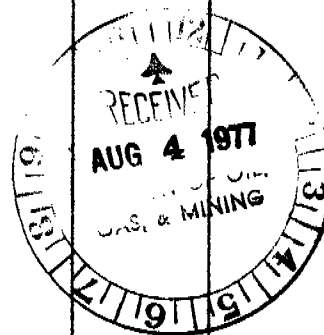
State UTAH County UINTAH Field WILDCAT

The following is a correct report of operations and production (including drilling and producing wells) for the month of JULY, 19 77,

Agent's address 633 17th Street, Suite 2140 Company PACIFIC TRANSMISSION SUPPLY CO.  
Denver, Colorado 80202 Signed [Signature]

Phone (303) 571-1662 Agent's title EXPLORATION MANAGER

| SEC. AND<br>1/4 OF 1/4 | TWP. | RANGE | WELL<br>No. | DAYS<br>PRODUCED | BARRELS OF OIL | GRAVITY | CU. FT. OF GAS<br>(In thousands) | GALLONS OF<br>GASOLINE<br>RECOVERED | BARRELS OF<br>WATER (If<br>none, so state) | REMARKS<br>(If drilling, depth; if shut down, cause;<br>date and result of test for gasoline<br>content of gas)  |
|------------------------|------|-------|-------------|------------------|----------------|---------|----------------------------------|-------------------------------------|--|--|
| SESE<br>Sec. 5         | T10S | R24#  | #44-5       |                  | N/A            | N/A     | N/A                              | N/A                                 | N/A  | Spudded 6/26/77.<br>Ran & cemented 5 jts.<br>13-3/8", 54.5#, J-55<br>surface csg.; landed<br>@ 365'. Cemented w/<br>300 sx Class "G".<br>7/31/77 - Drlg @ 6300'. |



NOTE.—There were \_\_\_\_\_ runs or sales of oil; \_\_\_\_\_ M cu. ft. of gas sold;

\_\_\_\_\_ runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R355.5.

**CONFIDENTIAL**  
Released 5/11/78  
16

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☒ DRY ☐ Other \_\_\_\_\_

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIF. RESVR. ☐ Other \_\_\_\_\_

2. NAME OF OPERATOR

PACIFIC TRANSMISSION SUPPLY COMPANY

3. ADDRESS OF OPERATOR

633 17th Street, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 772' FEL and 651' FSL of Section 5.

At top prod. interval reported below

At total depth

14. PERMIT NO.

43-047-30280

DATE ISSUED

5/4/77

5. LEASE DESIGNATION AND SERIAL NO.

U-1207

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Devil's Playground Unit

8. FARM OR LEASE NAME

9. WELL NO.

PTS 44-5 Federal

10. FIELD AND POOL, OR WILDCAT

Unit Well

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 5, T10S, R24E

12. COUNTY OR PARISH

Utah

13. STATE

Utah

15. DATE SPUDDED

June 25, 1977

16. DATE T.D. REACHED

Aug. 1, 1977

17. DATE COMPL. (Ready to prod.)

18. ELEVATIONS (DF, RKB, RT, OR, ETC.) \*

5246 Ungraded Ground

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6500'

21. PLUG BACK T.D., MD & TVD

4975' PBDT

22. IF MULTIPLE COMPL., HOW MANY \*

23. INTERVALS DRILLED BY

6500'

ROTARY TOOLS

None

CABLE TOOLS

None

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD) \*

4864-70

25. WAS DIRECTIONAL SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Laterolog, C.F. Density, B.C. Sonic

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

| CASINO SIZE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | CEMENTING RECORD  | AMOUNT PULLED |
|-------------|-----------------|----------------|-----------|-------------------|---------------|
| 13 3/8"     | 54.5            | 365            | 17 1/4"   | 400 sacks Class G | None          |
| 8 5/8"      | 24              | 2404           | 11"       | 300 sacks         | None          |

29. LINER RECORD

| SIZE         | TOP (MD) | BOTTOM (MD) | SACKS CEMENT * | SCREEN (MD) |
|--------------|----------|-------------|----------------|-------------|
| NO LINER RUN |          |             |                |             |

30. TUBING RECORD

| SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|--------|----------------|-----------------|
| 2 3/8" | 4810           | 4810            |

31. PERFORATION RECORD (Interval, size and number)

4864' - 4870', 24 holes, 4 holes/Ft

32. ACID SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL (MD)            | AMOUNT AND KIND OF MATERIAL USED |
|--------------------------------|----------------------------------|
| Acidized 4864'-4870', 1000 gal | Frac 30,000 gal.                 |
| 1 1/2% mud acid                | 15,000# 100 mesh sand            |
|                                | 21,250# 20/40 sand               |

33.\* PRODUCTION

|                       |                 |  |                         |          |            |                                    |               |
|-----------------------|-----------------|--|-------------------------|----------|------------|------------------------------------|---------------|
| DATE FIRST PRODUCTION |                 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) |                         |          |            | WELL STATUS (Producing or shut-in) |               |
| 8/16/77               |                 | Flowing thru orifice meter   |                         |          |            | Flowing                            |               |
| DATE OF TEST          | HOURS TESTED    | CHOKER SIZE  | PROD'N. FOR TEST PERIOD | OIL—BSL. | GAS—MCF.   | WATER—BSL.                         | GAS-OIL RATIO |
| 8/17/77               | 4               | 3/8" Orifice Plate →   |                         | 0        | 337        | Trace                              | --            |
| FLOW. TUBING PRESS.   | PACKER PRESSURE | CALCULATED 24-HOUR RATE  | OIL—BSL.                | GAS—MCF. | WATER—BSL. | OIL GRAVITY-API (CORR.)            |               |
| 630 psi               | Packer in hole  | →  | 0                       | 2021     | Trace      | --                                 |               |

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

Flared

TEST WITNESSED BY

R. Firth

35. LIST OF ATTACHMENTS

DST #1 and DST #2

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

*[Signature]*

TITLE

Engineer

DATE

8/17/77

\*(See Instructions and Spaces for Additional Data on Reverse Side)

# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 18:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

**Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

| 37. SUMMARY OF POROUS ZONES:<br>SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF: CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING<br>DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES |       |        | 38. GEOLOGIC MARKERS        |             |             |     |                  |
|---|-------|--------|-----------------------------|-------------|-------------|-----|------------------|
| FORMATION   | TOP   | BOTTOM | DESCRIPTION, CONTENTS, ETC. | NAME        | MEAS. DEPTH | TOP | TRUE VERT. DEPTH |
| Wasatch   | 4864' | 4870'  | Flowed gas                  | (Log Tops)  |             |     |                  |
|   |       |        |                             | Green River | 705'        |     |                  |
|   |       |        |                             | H Marker    | 2045'       |     |                  |
|   |       |        |                             | Wasatch     | 3410'       |     |                  |
|   |       |        |                             | Mesaverde   | 5104'       |     |                  |

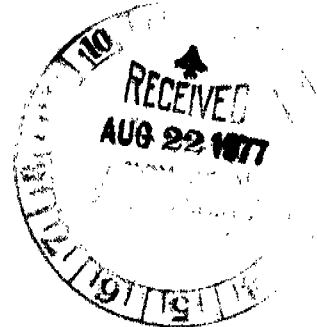
Please see attached sheets for DST No. 1 and No. 2 information

# PACIFIC TRANSMISSION SUPPLY COMPANY

245 MARKET STREET  
SAN FRANCISCO, CALIFORNIA 94105  
(415) 781-0474

August 18, 1977

Mr. Cleon B. Feight, Director  
Division of Oil, Gas and Mining  
1588 West, North Temple  
Salt Lake City, UT 84116



Dear Mr. Feight:

RE: PTS 44-5 Federal  
Devil's Playground Unit  
T10S, R24E, Sec. 5  
Uintah County, Utah

Enclosed are duplicate copies of a Completion  
Notice for the above captioned well.

Very truly yours,

*Eugene R. Henry*  
EUGENE R. HENRY

ERH:mly  
Enclosures

CONFIDENTIAL

# PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING  
P. O. BOX 3093  
CASPER, WYOMING 82602  
(307) 265-1027

GEOLOGICAL WELL COMPLETION REPORT

PACIFIC TRANSMISSION SUPPLY COMPANY

PTS #44-5 Federal

SECTION 5, TOWNSHIP 10 SOUTH, RANGE 24 EAST

UINTAH COUNTY, UTAH

Submitted by:  
David R. Hadden, Geologist  
Pacific Transmission Supply Company  
August 5, 1977

# PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING  
P. O. BOX 3093  
CASPER, WYOMING 82602  
(307) 265-1027

## WELL DATA

PTS #44-5 FEDERAL  
Sec.5-T10S-R24E  
Uintah County, Utah

|                      |   |
|----------------------|---|
| OPERATOR:            | Pacific Transmission Supply Company   |
| WELL NAME:           | PTS #44-5 Federal   |
| LOCATION:            | SE/4 SE/4 Sec. 5-T10S-R24E  |
| COUNTY & STATE:      | Uintah County, Utah   |
| ELEVATION:           | Ground 5246 feet (ungraded)<br>K.B. 5258 feet   |
| CONTRACTOR:          | Anderson Drilling Company, Rig No. 10<br>Toolpusher - David Hackford                        |
| COMMENCEMENT DATE:   | Spudded at 1:30 P.M. June 26, 1977  |
| CEASE DRILLING:      | 12:30 A.M. August 1, 1977   |
| TOTAL DEPTH:         | Driller - 6509.2 feet<br>Logger - 6511 feet   |
| WELL STATUS:         | Waiting on completion unit  |
| SURFACE CASING:      | Size - 13-3/8" K-55<br>Depth - 365 feet K.B.<br>Cement - 400 sacks Class "G"                |
| INTERMEDIATE CASING: | Size - 8-5/8" K-55<br>Depth - 2404 feet K.B.<br>Cement - 150 sacks RCF, 150 sacks Class "G" |
| HOLE SIZE:           | 53-365' - 17-1/2"<br>365-2407' - 11"<br>2407-TD - 7-7/8"                                    |
| DRILLING FLUID:      | Surface-4630 - water<br>4630-TD - salt mud  |
| LOGGING:             | Schlumberger  |



WELL DATA - Continued

|                       |   |
|-----------------------|---|
| SAMPLE STORAGE:       | American Stratigraphic Company<br>Casper, Wyoming                           |
| DRILLING TIME:        | TOTCO   |
| MUDDING LOGGING UNIT: | Tooke Portable Unit   |
| DRILLSTEM TESTS:      | DST #1 - 6378-6509', Johnston Testers<br>DST #2 - 4860-4880', Lynes Testers |
| CORES:                | None  |
| GEOLOGIST:            | David R. Hadden   |

CHRONOLOGICAL WELL HISTORY

| Date    | Drilled<br>to | Hours<br>Drilling | Activity   |
|---------|---------------|-------------------|--|
| 6-26-77 |               | 6-1/2             | Spud at 1:30 P.M.  |
| 6-27-77 | 169'          | 15-3/4            | Drilling surface hole.   |
| 6-28-77 | 367'          |                   | Drilling surface hole.   |
| 6-29-77 | 367'          | 0                 | Ran 9 joints 13-3/8", K-55 surface casing, landed at 365' K.B.; WOC.             |
| 6-30-77 | 378'          | 1-1/2             | Nipple up and pressure test BOP; drill out from surface.                         |
| 7-1-77  | 925'          | 22                | Drilling.  |
| 7-2-77  | 1275'         | 18-1/2            | Drilling.  |
| 7-3-77  | 1870'         | 23-3/4            | Drilling.  |
| 7-4-77  | 2290'         | 23-1/2            | Drilling.  |
| 7-5-77  | 2407'         | 6-3/4             | Drilling; circulate for logs; logging; plus 7' strap correction (2400' = 2407'). |
| 7-6-77  | 2407'         | 0                 | Waiting on rig repair.   |
| 7-7-77  | 2705'         | 12-1/4            | Repair rig; trip in hole; drilling.  |
| 7-8-77  | 3151'         | 10                | Drilling; circulate and trip out to run 8-5/8" casing.                           |
| 7-9-77  | 3151'         | 0                 | WOC; nipple up and test BOP.   |
| 7-10-77 | 3808'         | 20-1/2            | Drilling; trip out with bit #4 (lost one cone).                                  |
| 7-11-77 | 3873'         | 6-3/4             | Drill on junk; repair swivel; drilling.  |
| 7-12-77 | 4182'         | 19-1/2            | Trip for bit #6; drilling.   |
| 7-13-77 | 4524'         | 21-1/4            | Drilling.  |
| 7-14-77 | 4645'         | 7                 | Working stuck pipe; replace kelly hose.  |
| 7-15-77 | 4645'         | 0                 | Fishing.   |
| 7-16-77 | 4645'         | 0                 | Fishing.   |
| 7-17-77 | 4645'         | 0                 | Fishing.   |
| 7-18-77 | 4645'         | 0                 | Fishing.   |
| 7-19-77 | 4645'         | 0                 | Fishing.   |
| 7-20-77 | 4645'         | 0                 | Fishing.   |
| 7-21-77 | 4645'         | 0                 | Fishing.   |
| 7-22-77 | 4645'         | 0                 | Fishing.   |
| 7-23-77 | 4767'         | 21                | Trip in hole with re-run bit #6; drilling.                                       |
| 7-24-77 | 4952'         | 17-1/2            | Drilling; pack swivel; trip for bit #10.   |
| 7-25-77 | 5068'         | 12                | Drilling; pack swivel.   |
| 7-26-77 | 5337'         | 24                | Drilling.  |
| 7-27-77 | 5571'         | 23-3/4            | Drilling.  |
| 7-28-77 | 5814'         | 23-3/4            | Drilling.  |
| 7-29-77 | 6097'         | 23-3/4            | Drilling.  |
| 7-30-77 | 6238'         | 18-1/2            | Drilling; trip for bit #11 (re-run #6).  |
| 7-31-77 | 6492'         | 23-3/4            | Drilling.  |
| 8-1-77  | 6501'         | -1/2              | Drilling; logging; plus 8.2' strap correction (6501' = 6509').                   |
| 8-2-77  | 6509'         | 0                 | Logging; trip in hole for DST #1 (6378-6509').                                   |
| 8-3-77  | 6509'         | 0                 | Trip out of hole with test tool; WOC.  |
| 8-4-77  | 6509'         | 0                 | Run DST #2(4860-4880').  |

MUD PROPERTIES

| <u>Date</u> | <u>Depth</u> | <u>Weight</u> |      | <u>Viscosity</u> | <u>Water<br/>Loss</u> | <u>Filter-<br/>Cake</u> | <u>PV</u> | <u>YP</u> |
|-------------|--------------|---------------|------|------------------|-----------------------|-------------------------|-----------|-----------|
| 6-26-77     | 60'          | Water         |      |                  |                       |                         |           |           |
| 6-27-77     | 135'         | 8.6           | 11.0 | 31               |                       |                         |           |           |
| 6-28-77     | 258'         | 8.7           | 11.0 | 28               |                       |                         |           |           |
| 6-29-77     | 368'         | Water         |      |                  |                       |                         |           |           |
| 7-2-77      | 1011'        | Water         |      |                  |                       |                         |           |           |
| 7-3-77      | 1525'        | Water         |      |                  |                       |                         |           |           |
| 7-4-77      | 2118'        | Water         |      |                  |                       |                         |           |           |
| 7-5-77      | 2400'        | Water         |      |                  |                       |                         |           |           |
| 7-6-77      | 2407'        | Water         |      |                  |                       |                         |           |           |
| 7-7-77      | 2541'        | Water         |      |                  |                       |                         |           |           |
| 7-8-77      | 3151'        | Water         |      |                  |                       |                         |           |           |
| 7-10-77     | 3588'        | Water         |      |                  |                       |                         |           |           |
| 7-11-77     | 3866'        | Water         |      |                  |                       |                         |           |           |
| 7-12-77     | 3973'        | Water         |      |                  |                       |                         |           |           |
| 7-13-77     | 4373'        | Water         |      |                  |                       |                         |           |           |
| 7-14-77     | 4645'        | 8.7           |      | 27               |                       |                         |           |           |
| 7-15-77     | 4645'        | 8.7           |      | 27               |                       |                         |           |           |
| 7-16-77     | 4645'        | 8.7           |      | 28               |                       |                         |           |           |
| 7-17-77     | 4645'        | 8.9           | 11.0 | 49               | 22.0                  | 3/32                    | 15        | 10        |
| 7-18-77     | 4645'        | 9.0           | 10.5 | 38               | 17.5                  | 2/32                    | 10        | 5         |
| 7-19-77     | 4645'        | 9.0           | 10.0 | 65               | 10.8                  | 3/32                    | 15        | 25        |
| 7-20-77     | 4645'        | 8.8           | 11.0 | 54               | 9.9                   | 2/32                    | 6         | 22        |
| 7-21-77     | 4645'        | 8.9           | 10.0 | 85               | 9.2                   | 2/32                    | 10        | 30        |
| 7-22-77     | 4645'        | 8.9           | 10.0 | 55               | 8.0                   | 2/32                    | 8         | 22        |
| 7-23-77     | 4705'        | 8.9           | 10.0 | 35               | 8.0                   | 2/32                    | 10        | 2         |
| 7-24-77     | 4860'        | 9.0           | 10.5 | 40               | 7.8                   | 2/32                    | 20        | 20        |
| 7-25-77     | 4967'        | 9.0           | 9.5  | 50               | 13.0                  | 4/32                    | 18        | 22        |
| 7-26-77     | 5189'        | 9.0           | 10.0 | 40               | 12.0                  | 2/32                    | 21        | 11        |
| 7-27-77     | 5482'        | 9.2           | 11.0 | 35               | 11.0                  | 2/32                    | 19        | 9         |
| 7-28-77     | 5721'        | 9.1           | 11.0 | 36               | 9.8                   | 2/32                    | 16        | 6         |
| 7-29-77     | 5959'        | 9.2           | 11.0 | 35               | 9.2                   | 2/32                    | 10        | 5         |
| 7-30-77     | 6172'        | 9.1           | 11.0 | 46               | 14.0                  | 3/32                    | 11        | 25        |
| 7-31-77     | 6414'        | 9.1           | 11.0 | 35               | 12.0                  | 2/32                    | 15        | 8         |
| 8-1-77      | 6500'        | 9.3           | 11.0 | 44               | 12.0                  | 2/32                    | 15        | 8         |
| 8-2-77      | 6509'        | 9.3           | 11.0 | 44               | 12.0                  | 2/32                    | 15        | 8         |
| 8-3-77      | 6509'        | 9.3           | 10.5 | 38               | 11.0                  | 2/32                    | 12        | 8         |
| 8-4-77      | 6509'        | 9.2           | 10.5 | 38               | 11.8                  | 2/32                    | 12        | 8         |

BIT RECORD

| <u>Bit No.</u> | <u>Size</u> | <u>Make</u> | <u>Type</u> | <u>Depth<br/>In</u> | <u>Depth<br/>Out</u> | <u>Footage</u>  | <u>Hours</u>        | <u>Jets</u>    |
|----------------|-------------|-------------|-------------|---------------------|----------------------|-----------------|---------------------|----------------|
| 1              | 17-1/2"     | Smith       | DTJ         | 53'                 | 367'                 | 314'            | 41-1/2              | 3-20's         |
| 2              | 11"         | Smith       | DGT         | 365'                | 1011'                | 646             | 31-3/4              | 3-12's         |
| 3              | 11"         | Smith       | F-3         | 1011'               | 2407'                | 1396'           | 64-1/2              | 3-12's         |
| 4              | 7-7/8"      | Hughes      | J-33        | 2407'               | 3808'                | 1401'           | 43-1/4              | 3-12's         |
| 5              | 7-7/8"      | Smith       | F-3         | 3808'               | 3873'                | 65'             | 6-3/4               | 3-12's         |
| 6              | 7-7/8"      | Smith       | F-45        | 3873'               | 4952'                | 1079'           | 88-1/4              | 3-12's         |
| 7              | 7-7/8"      | Smith       | DGTJ        |                     |                      | Fishing         |                     | 3-11's         |
| 8              | 7-7/8"      | Smith       | DGT         |                     |                      | Fishing         |                     | 3-11's         |
| 9              | 7-7/8"      | Smith       | DGTH        |                     |                      | Fishing         |                     | 3-12's         |
| 10             | 7-7/8"      | Smith       | F-45        | 4952'               | 6211'                | 1259'           | 120-1/2             | 1-11<br>2-13's |
| 11 (RR#6)      | 7-7/8"      | Smith       | F-45        | 6211'               | 6501'                | 290'<br>(1369') | 29-1/2<br>(117-3/4) | 1-14<br>2-12's |

DEVIATIONS

| <u>Depth</u> | <u>Survey</u> |
|--------------|---------------|
| 369'         | 0 degrees     |
| 684'         | 3/4 degrees   |
| 1400'        | 1-1/4 degrees |
| 1870'        | 2 degrees     |
| 2400'        | 1-3/4 degrees |
| 3110'        | 2-3/4 degrees |
| 3744'        | 3-1/4 degrees |
| 4923'        | 3-1/4 degrees |
| 6500'        | Misrun        |

DRILLSTEM TESTSDST #1, 6378-6509'

|      |          |               |
|------|----------|---------------|
| IH   | 3211#    |               |
| FH   | 3211#    |               |
| IF   | 135-107# | ( 10 minutes) |
| FF   | 79-173#  | ( 90 minutes) |
| ISIP | 464#     | ( 60 minutes) |
| FSIP | 361#     | (120 minutes) |

Slight blow at initial open, increasing to strong blow off bottom of bucket in seven minutes. No gas to surface.

Second open with strong blow off bottom of bucket, gas to surface in 62 minutes at 1/4#, 1/4" choke, with estimated rate of 19 MCF, decreasing to lazy flame at end of flow period. Time, pressure and choke size as follows:

| <u>Time</u> | <u>Pressure (P.S.I.G.)</u> | <u>Surface Choke</u> |
|-------------|----------------------------|----------------------|
| 1810        | 1-1/4" in water            | 1/8"                 |
| 1813        | 15" in water               | 1/8"                 |
| 1818        | 3-3/4#                     | 1/8"                 |
| 1823        | 3-3/4#                     | 1/8"                 |
| 1923        | 3-3/4#                     | 1/8"                 |
| 1925        | 3-3/4#                     | 1/8"                 |
| 1926        | 4#                         | 1/8"                 |
| 1930        | 6-1/2#                     | 1/8"                 |
| 1935        | 6-1/4#                     | 1/8"                 |
| 1945        | 6#                         | 1/8"                 |
| 2010        | 5-1/2#                     | 1/8"                 |
| 2025        | 5-1/2#                     | 1/8"                 |
| 2027        | 1#                         | 1/4"                 |
| 2033        | 0#                         | 1/4"                 |

Pipe recovery: 464 feet drilling mud

Sample Chamber recovery: 2200 cc mud, .25 cubic feet gas at 50 pounds

Temperature: 168 degrees F.

Resistivity of mud: .23 ohms at 76 degrees F., 240,000 ppm chloride

Resistivity of pit mud: .10 ohms at 99 degrees F., 260,000 ppm chloride

DST #2, 4860-4880'

|      |          |               |
|------|----------|---------------|
| IH   | 2570#    |               |
| FH   | 2570#    |               |
| IF   | 255-153# | ( 10 minutes) |
| FF   | 127-127# | ( 90 minutes) |
| ISIP | 2313#    | ( 60 minutes) |
| FSIP | 2568#    | (180 minutes) |

DST #2, 4860-4880' - Continued

Initial open with two inch blow, died after five minutes.

Second open with good blow, gas to surface at the following rates:

| <u>Time</u> | <u>Pressures</u> | <u>Choke Size</u> | <u>Rate</u> |
|-------------|------------------|-------------------|-------------|
| 0500        | 6#               | 1/4"              | 22.9 MCF    |
| 0510        | 6#               | 1/4"              | 22.9 MCF    |
| 0520        | 7#               | 1/4"              | 25.0 MCF    |
| 0530        | 8#               | 1/4"              | 27.0 MCF    |
| 0540        | 9#               | 1/4"              | 29.0 MCF    |
| 0550        | 11#              | 1/4"              | 32.4 MCF    |
| 0600        | 14#              | 1/4"              | 37.6 MCF    |
| 0610        | 19#              | 1/4"              | 45.5 MCF    |
| 0620        | 23#              | 1/4"              | 51.8 MCF    |
| 0630        | 26#              | 1/4"              | 56.3 MCF    |

Pipe recovery: 45 feet of drilling mud

Sample Chamber recovery: 1000 cc mud, 0.2 cubic feet gas at 5# PSIG

Temperature: Misrun

Resistivity of mud: .35 ohms at 75 degrees F., 14,000 ppm chloride

FORMATION TOPS

|             | <u>Sample Top</u> | <u>Electric Log Top</u> |
|-------------|-------------------|-------------------------|
| Green River |                   | 705' (+4553')           |
| H-Marker    | 1990'             | 2045' (+3204')          |
| Wasatch     | 3456'             | 3410' (+1848')          |
| Mesaverde   | 5148'             | 5104' (+ 154')          |

LOG ANALYSIS

| <u>Depth</u> | <u>R<sub>w</sub></u> | <u>R<sub>t</sub></u> | <u>"F"</u> | <u>Porosity</u> | <u>Water Saturation</u> |
|--------------|----------------------|----------------------|------------|-----------------|-------------------------|
| 4864-4870'   | .3                   | 80                   | 50         | 13              | 43                      |
| 5110-5120'   | .3                   | 32                   | 88         | 10              | 91                      |
| 5624-5632'   | .3                   | 21                   | 37         | 15              | 73                      |
| 5840-5865'   | .3                   | 19                   | 37         | 15              | 76                      |
| 6056-6064'   | .55                  | 26                   | 42         | 14              | 94                      |
| 6000-6025'   | .55                  | 25                   | 37         | 15              | 90                      |
| 6390-6398'   | .55                  | 55                   | 37         | 15              | 61                      |



DRILLING BREAKS (34)

|       | <u>Interval</u> | <u>Units of Gas</u>           |
|-------|-----------------|-------------------------------|
| ( 9') | 3556-3565'      |                               |
| ( 4') | 3754-3758'      |                               |
| ( 7') | 3767-3774'      |                               |
| (13') | 3940-3953'      | 8                             |
| ( 7') | 4261-4268'      |                               |
| ( 8') | 4858-4866'      | 368 - including down time gas |
| ( 2') | 4927-4929'      |                               |
| ( 3') | 4937-4940'      | 26                            |
| (22') | 4971-4993'      | 26                            |
| (49') | 5097-5146'      |                               |
| ( 3') | 5159-5162'      |                               |
| ( 9') | 5218-5227'      |                               |
| (15') | 5237-5252'      |                               |
| (14') | 5266-5280'      |                               |
| ( 5') | 5283-5288'      |                               |
| (12') | 5434-5446'      |                               |
| ( 6') | 5506-5512'      |                               |
| ( 9') | 5584-5593'      |                               |
| ( 8') | 5616-5624'      | 28                            |
| ( 4') | 5699-5703'      |                               |
| ( 9') | 5714-5723'      |                               |
| ( 9') | 5739-5748'      | 18                            |
| (17') | 5765-5782'      |                               |
| (52') | 5833-5885'      | 46                            |
| (37') | 5913-5950'      | 70                            |
| (28') | 5993-6021'      | 88                            |
| (10') | 6048-6058'      | 75                            |
| (13') | 6190-6203'      | 100                           |
| ( 4') | 6330-6334'      |                               |
|       | (1-1/2-2"/ft)   | 102                           |
| ( 8') | 6381-6389'      | 360                           |
| ( 3') | 6444-6447'      |                               |
|       | (1-1-1/2"/ft)   | 236                           |
| ( 4') | 6481-6485'      |                               |
|       | (1-4"/ft)       | 224                           |
| ( 2') | 6408-6410       | 112                           |
| ( 2') | 6455-6457       | 212                           |

SAMPLE DESCRIPTION

| <u>Depth</u> | <u>Lithology</u>   |
|--------------|--|
|              | (Samples not lagged - 30' samples)   |
| 400- 640'    | Sandstone, gray, fine grain to very fine grain, occasionally medium grain, sub-angular, poorly sorted, unconsolidated, slightly calcareous, clay-filled.   |
| 640- 820'    | Sandstone, gray, fine grain to very fine grain, sub-angular, poorly sorted, slightly calcareous; shale, gray, firm, slightly calcareous, marlstone, cream to buff.   |
| 820- 880'    | Shale, brown to brown-gray, soft, calcareous; trace sandstone, gray, fine grain to very fine grain, sub-angular, fair sorting, clay-filled, calcareous.  |
| 880- 910'    | Sandstone, gray, light gray, occasionally white, very fine grain to fine grain, sub-angular, fair to poor sorting, commonly clay-filled, slightly calcareous, occasionally tuffaceous; shale, gray to green-gray, slightly calcareous, trace |
| 910- 970'    | Sandstone, gray, fine grain to very fine grain, occasionally medium grain, sub-angular, fair sorting, slightly calcareous, unconsolidated; shale, gray, tan.   |
| 970-1000'    | Shale and marlstone, gray, buff, calcareous, sample mostly lost circulation material.  |
|              | <u>10 foot samples</u>   |
| 1000-1250'   | Samples very poor - mostly lost circulation material; shale and marlstone, tan to brown, trace black, slightly calcareous.   |
| 1250-1330'   | Marlstone, brown-gray, gray, occasionally black, slightly calcareous, faint cut on crushed sample.   |
| 1330-1490'   | Marlstone, gray, brown-gray, tan, cream, black, slightly calcareous, faint cut on crushed, dark-colored sample.  |
| 1490-1570'   | Marlstone, light gray, cream, white, occasionally to rare brown-gray, black, calcareous.   |
| 1570-1630'   | Marlstone, tan, brown-gray, light gray, tan, rare dark gray to black, calcareous.  |
| 1630-1710'   | Marlstone, brown-gray, gray to dark gray, black, tan, light gray, calcareous.  |

|            |   |
|------------|---|
| 1710-1740' | No sample.  |
| 1740-1810' | Marlstone, brown-gray, gray to dark gray, black, tan, calcareous to slightly calcareous, very faint cut on dark-colored samples.  |
| 1810-2000' | No sample.  |
| 2000-2040' | Marlstone, gray, brown-gray, black, tan, light gray, calcareous to slightly calcareous; rare to occasional shale, gray, soft.   |
| 2040-2090' | Marlstone, gray, brown-gray, black, tan, calcareous to slightly calcareous; rare to occasional shale, gray, soft; rare sandstone, light gray to white, very fine grain, sub-angular, well sorted, calcareous.           |
| 2090-2120' | Shale, gray, brown, tan, slightly calcareous, commonly silty; marlstone, brown-gray, tan, black; scattered sandstone, gray to light gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous.         |
| 2120-2170' | Marlstone, brown-gray, tan, gray, black; shale, gray, calcareous; occasional sandstone, gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous.   |
| 2170-2180' | Marlstone, gray, tan, cream, scattered black; shale, gray, calcareous; occasional sandstone, gray to light gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous.                                  |
| 2180-2210' | Marlstone, brown-gray, gray, tan, black, cream; shale, gray, slightly calcareous; occasional sandstone, light gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous. (2190-2200' - no sample)      |
| 2210-2260' | Shale, light gray, calcareous; occasional to commonly sandstone, light gray to gray, fine grain to very fine grain, sub-angular, fair to well sorted, calcareous; scattered marlstone, brown-gray, tan.                 |
| 2260-2300' | Shale, light gray, gray, dark gray, occasionally calcareous; sandstone, gray, light gray, very fine grain to fine grain, sub-angular, well to fair sorted, calcareous; rare marlstone, tan; trace limestone, dark gray. |
| 2300-2330' | Marlstone, brown-gray, black, tan; scattered limestone, dark gray; rare shale, gray.  |
| 2330-2360' | Shale, gray; marlstone, brown to tan; sandstone, light gray to gray, very fine grain, occasionally fine grain, sub-angular well sorted, calcareous. (2350-2360' - no sample)  |

|            |   |
|------------|---|
| 2360-2380' | Shale, gray, dark gray, brown-gray, commonly soft.  |
| 2380-2400' | Marlstone, light gray, brown, tan; shale, gray, black, occasionally slightly calcareous.  |
| 2400-2520' | Shale and marlstone, light gray, brown-gray, tan, black, calcareous to slightly calcareous.   |
| 2520-2580' | Shale, green-gray, gray, tan, red-tan, occasionally silty, calcareous; scattered sandstone, very fine grain to fine grain, sub-angular, fair to moderately well sorted, clay-filled, calcareous.  |
| 2580-2650' | Shale, gray, light gray, maroon, soft to firm, calcareous, occasionally silty; scattered sandstone, very fine grain to fine grain, rare to medium grain, sub-angular, fair to poor sorting, silty, calcareous, commonly clay-filled.            |
| 2650-2670' | Shale, black, dark brown-gray, gray, cream, occasionally calcareous; sandstone, dark gray, gray, white, very fine grain to fine grain, fair to well sorted, sub-angular, silty, calcareous, commonly clay-filled.                               |
| 2670-2730' | Shale, dark gray, gray, brown-gray, cream, calcareous to slightly calcareous; scattered sandstone, light gray, gray, white, fine grain to very fine grain, sub-angular, fair to well sorted, sub-angular, silty to clay-filled, calcareous.     |
| 2730-2790' | Sandstone, light gray, white, gray, fine grain to very fine grain, moderately well sortings to fair sortings, sub-angular, silty, clay-filled, calcareous with scattered streaks of carbonaceous material; shale, gray, tan, cream, calcareous. |
| 2790-2880' | Shale, dark gray to gray, slightly calcareous; scattered sandstone, gray, light gray, white, very fine grain to fine grain, sub-angular, fine to moderately sorting, silty, clay-filled, occasional streaks carbonaceous material, calcareous.  |
| 2880-2910' | Shale, gray, brown, brown-gray, dark gray, black, firm to soft, calcareous; trace sandstone, light gray, white, very fine grain to fine grain, sub-angular, fair sorting, clay-filled, silty, calcareous.                                       |
| 2910-3090' | Shale, gray, dark gray, brown-gray, tan, soft to slightly firm, calcareous, occasionally silty; trace limestone, very dark gray, argillaceous.  |
| 3090-3150' | Shale, gray, brown-gray, dark gray, tan, soft to slightly firm, calcareous; slight trace limestone, dark gray to dark tan, commonly argillaceous.   |

- 3150-3220' Sandstone, white to light gray, very fine grain to fine grain, sub-angular, fair sorting, slightly calcareous, clay-filled; shale, gray to dark gray, soft to firm.
- 3220-3240' Shale, dark gray, gray, brown-gray, soft, calcareous.
- 3240-3260' Shale, dark gray, gray, brown-gray, soft, calcareous; trace limestone, dark gray, argillaceous; rare sandstone, gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; trace coal (?).
- 3260-3310' Limestone, tan to dark tan, gray, argillaceous; shale, gray, dark gray, soft to firm, calcareous; sandstone, white to light gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled.
- 3310-3350' Limestone, cream, tan, gray, fossiliferous (ostracods), oolitic; shale, gray to dark gray, soft, calcareous.
- 3350-3390' Sandstone, white to light gray, fine grain to very fine grain, sub-angular, fair to moderately well sorted, slightly calcareous, clay-filled; shale, gray to dark gray, soft to firm; limestone, cream to tan, oolitic.
- 3390-3430' Shale, gray to gray-brown, rare black, silty, soft to firm, calcareous; sandstone, white to gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; rare limestone, dark gray, argillaceous.
- 3430-3450' Sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; shale, gray to dark gray, brown-gray, soft to firm, calcareous; limestone, tan to cream, fossiliferous, oolitic.
- 3450-3490' Shale, gray, brown-gray, occasionally reddish-gray, soft to firm, calcareous; sandstone, light gray to gray, fine grain to very fine grain, sub-angular, fair to poor sorting, clay-filled, calcareous; scattered limestone, tan to gray, occasionally fossiliferous.
- 3490-3540' Shale, light gray to dark gray, occasionally pale red, soft to firm, calcareous; scattered sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair sorting, clay-filled, calcareous; rare limestone, gray, argillaceous, occasionally fossiliferous; trace coal.
- 3540-3550' No sample.
- 3550-3570' Shale, gray to light gray, red, trace yellow (very poor samples).

|            |   |
|------------|---|
| 3570-3590' | No sample.  |
| 3590-3630' | Shale, gray, light gray, red (very poor samples).   |
| 3630-3660' | Shale and siltstone, red, gray, maroon, mottled, occasionally yellow, soft, calcareous.   |
| 3660-3700' | No sample. (Green River samples from base of shale shaker.)   |
| 3700-3720' | Sandstone, light gray, salt and pepper, fine grain to medium grain, occasionally very fine grain, sub-angular, fair sorting, calcareous; shale, red, gray, maroon, mottled, slightly calcareous.  |
| 3720-3830' | Shale, red, gray, maroon; scattered sandstone, light gray, salt and pepper, fine grain to medium grain, occasionally very fine grain, sub-angular, fair sorting, slightly calcareous; occasional siltstone, red. (No sample: 3780-3790', 3810-3820'.)   |
| 3830-3860' | Shale, red, maroon, green, gray, soft to firm, occasionally calcareous; scattered sandstone, light gray to gray, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, calcareous.   |
| 3860-3870' | No sample.  |
| 3870-3920' | Shale, red, maroon, green, gray, soft, calcareous; trace sandstone, light gray to gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous.   |
| 3920-3930' | Shale, red, maroon, green, gray, soft, calcareous; trace coal; trace sandstone, gray, very fine grain, sub-angular, well sorted, calcareous.  |
| 3930-3980' | Shale, red, maroon, green, gray, yellow, soft to firm; trace sandstone, light gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous, occasionally clay-filled.   |
| 3980-4000' | Shale, gray, green, red, yellow, soft to firm, calcareous; trace limestone, cream, occasionally fossiliferous, rarely sandy.  |
| 4000-4050' | Shale, gray, green, red, maroon, yellow, soft to firm, calcareous; slight trace coal; slight trace sandstone, light gray to gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous. (Personally caught a sample at 4065' to see how reliable samples were; the sample consisted primarily of shale, gray, red, yellow; and sandstone, light gray, white, salt and pepper, fine grain to very fine grain, rare medium grain, sub-angular, rare sub-rounded, fair to poor sorting, calcareous.) |

- 4050-4130' Shale, gray, dark gray, green-gray, red, mottled, soft to firm, occasionally hard, occasionally calcareous; trace sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair sorting, calcareous; slight trace coal.
- 4130-4160' Shale, gray, green, red, yellow, maroon, soft to firm, calcareous, occasionally silty.
- 4160-4180' Shale, gray, green, red, yellow, maroon, soft to firm, calcareous; occasionally sandstone, light gray to white, fine grain, occasionally medium grain, sub-angular, fair to poor sorting, calcareous, occasionally clay-filled; trace coal; trace limestone, dark gray.
- 4180-4200' Shale, gray, green, red, maroon, yellow, soft to firm, calcareous, occasionally silty; trace sandstone, light gray, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; trace coal.
- 4200-4210' Shale, gray, green, red, maroon, yellow, soft to firm, calcareous, scattered coal; trace sandstone, fine grain to very fine grain, sub-angular, fair to poor sorting, calcareous, commonly clay-filled.
- 4210-4250' Shale, red, gray, green, maroon, yellow, soft to firm, calcareous; trace sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; trace coal.
- 4250-4260' Shale, red, green, maroon, gray, yellow, soft to firm, calcareous, occasionally silty, scattered coal; trace sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled.
- 4260-4280' Shale, red, gray, maroon, green, yellow, soft to firm, calcareous; scattered sandstone, white to light gray, salt and pepper, fine grain to very fine grain, sub-angular, clay-filled, calcareous; rare coal.
- 4280-4300' Shale, gray, red, green, yellow, soft to firm, calcareous; scattered sandstone, white, salt and pepper, fine grain, occasionally very fine grain, sub-angular, fair sorting, commonly clay-filled, calcareous; rare coal.
- 4300-4330' Shale, gray, red, green, yellow, soft to firm, calcareous; rare sandstone, white to light gray, fine grain to very fine grain, sub-angular, fair sorting, clay-filled, calcareous; trace coal.
- 4330-4380' Shale, gray, red, green, yellow, soft to firm, calcareous; trace sandstone, light gray, white, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, clay-filled, calcareous.

- 4380-4390' Sandstone, white, salt and pepper, fine grain, occasionally medium grain, sub-angular, poor sorting, commonly clay-filled, calcareous; shale, red, gray, green, yellow, soft to firm, calcareous.
- 4390-4410' Sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; shale, gray, red, green, soft to firm, calcareous; trace coal.
- 4410-4440' Shale, gray, red, green, soft to firm, calcareous; sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; trace coal.
- 4440-4460' Shale, gray, green, red, soft to firm, calcareous; trace coal.
- 4460-4490' Shale, red, green, gray, yellow, soft to firm, calcareous; sandstone, light gray to white, salt and pepper, fine grain, occasionally medium grain and very fine grain, sub-angular, fair to poor sorting, calcareous, commonly clay-filled.
- 4490-4560' Shale, gray, red, maroon, green, yellow, soft to firm, calcareous; scattered sandstone, light gray, white, salt and pepper, fine grain, occasionally very fine grain, sub-angular, fair sorting, calcareous, commonly clay-filled; trace coal.
- 4560-4590' Sandstone, light gray, white, salt and pepper, fine grain to very fine grain, occasionally medium grain, sub-angular, poor to fair sorting, calcareous, clay-filled; shale, gray, red, maroon, green, yellow, occasionally silty, soft to firm, calcareous; trace coal.
- 4590-4650' Shale, gray, red, maroon, green, yellow, soft to firm, occasionally silty, calcareous; sandstone, light gray, white, salt and pepper, fine grain to very fine grain, rare medium grain, sub-angular, poor to fair sorting, calcareous, commonly clay-filled.
- 4650-4690' Sandstone, white, light gray, salt and pepper, fine grain, occasionally very fine grain, sub-angular, well to fair sorting, calcareous, commonly clay-filled; shale, gray, red, gray-green, calcareous, silty; scattered limestone, gray, argillaceous.
- 4690-4750' Shale, gray-green, gray, green, red, soft to firm, occasionally silty, calcareous; sandstone, gray, light gray, white, salt and pepper, very fine grain to fine grain, sub-angular, fair sorting, calcareous, commonly clay-filled; scattered limestone, gray, argillaceous.



- 4750-4760' Marlstone, white; sandstone, gray, light gray, white, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled; shale, gray, gray-green, occasionally red, calcareous.
- 4760-4780' Shale, gray, gray-green, red, soft to firm, calcareous; marlstone, white; scattered sandstone, white to light gray, salt and pepper, fine grain to very fine grain, fair sorting, calcareous, clay-filled.
- 4780-4850' Shale, red, gray, gray-green, soft to firm, occasionally calcareous; siltstone, red; sandstone, light gray, gray, white, salt and pepper, very fine grain to fine grain, sub-angular, fair to poor sorting, calcareous, clay-filled; trace pyrite.
- 4850-4880' Sandstone, light gray, white, salt and pepper, fine grain to very fine grain, sub-angular, fair to moderately well sorted, calcareous, clay-filled; shale, gray, gray-green, red, soft to firm, calcareous.
- 4880-4900' Sandstone, gray, white, salt and pepper, medium grain to very fine grain, sub-angular, fair to poor sorting, commonly clay-filled, calcareous; shale, gray, gray-green, red, soft to firm, calcareous; scattered carbonaceous shale.
- 4900-4930' Sandstone, gray, salt and pepper, fine grain to medium grain, occasionally very fine grain, sub-angular, fair to poor sorting, slightly calcareous, occasionally clay-filled; scattered dark gray to black, carbonaceous shale.
- 4930-4950' Sandstone, gray, salt and pepper, medium grain to fine grain, sub-angular, fair sorting, calcareous, clay-filled; shale, dark gray to black, soft, occasionally carbonaceous; trace coal.
- 4950-5010' Shale, gray, gray-green, red, occasionally silty, calcareous, soft to firm; sandstone, gray, salt and pepper, fine grain to medium grain, occasionally very fine grain, sub-angular, poor to fair sorting, calcareous, clay-filled.
- 5010-5030' Sandstone, gray, light gray, salt and pepper, medium grain to very fine grain, sub-angular, poor to fair sorting, calcareous, clay-filled; shale, gray, dark gray, red, soft to firm, calcareous.
- 5030-5060' Sandstone, light gray to white, fine grain to very fine grain, sub-angular, fair to well sorted, abundant clay-filling, calcareous; occasional shale, gray to dark gray, soft to firm, slightly calcareous; scattered siltstone, gray.
- 5060-5140' Sandstone, light gray to white, salt and pepper, fine grain to very fine grain, occasionally medium grain, sub-angular, fair to well sorted, occasionally poorly sorted, abundant

- clay-filling, calcareous; shale, gray to dark gray, soft to firm, calcareous; scattered siltstone, gray, slightly calcareous.
- 5140-5200' Sandstone, white, salt and pepper, fine grain to medium grain, sub-angular, fair sorting, calcareous, abundant clay-filling; occasionally siltstone, gray, slightly calcareous; scattered shale, gray to dark gray, slightly calcareous.
- 5200-5250' Sandstone, white, light gray, gray, salt and pepper, fine grain, occasionally medium grain and very fine grain, sub-angular, poor to fair, occasionally well sorted, abundant clay-filling, calcareous; shale, gray, occasionally gray-green, occasionally red, soft to firm, calcareous, occasionally silty, occasionally carbonaceous; rare to trace coal.
- 5250-5300' Sandstone, white, light gray, salt and pepper, fine grain, occasionally medium grain and very fine grain, sub-angular, poor to fair sorting, occasionally well sorted, abundant clay-filling, calcareous; shale, gray, gray-green, red, occasionally silty, occasionally carbonaceous; siltstone, dark gray, occasionally carbonaceous, slightly calcareous; trace limestone, light gray, micritic. (No sample 5260-5270'.)
- 5300-5310' Sandstone, white, salt and pepper, fine grain to medium grain, sub-angular, fair sorting, calcareous, clay-filled; scattered shale, gray, occasionally silty, slightly calcareous.
- 5310-5360' Sandstone, white, gray, salt and pepper, fine grain, occasionally medium grain and very fine grain, sub-angular, fair sorting, occasionally well sorted, clay-filled, calcareous; shale, gray, dark gray, trace red, occasionally carbonaceous; rare siltstone, dark gray, slightly calcareous, occasionally carbonaceous. (No sample 5330-5340'.)
- 5360-5420' Sandstone, white, light gray, gray, salt and pepper, fine grain to very fine grain, rarely medium grain, sub-angular, fair to poor sorting, calcareous, clay-filled; shale, gray, dark gray, trace red, occasionally silty, occasionally carbonaceous; scattered siltstone, dark gray, occasionally carbonaceous; occasional to scattered coal.
- 5420-5450' Sandstone, gray, white, salt and pepper, fine grain to very fine grain, sub-angular, poor to fair sorting, clay-filled, calcareous, occasionally silty; siltstone, dark gray, carbonaceous; shale, dark gray, carbonaceous, rare coal. (No sample 5430-5440'.)

- 5450-5460' Sandstone, white, salt and pepper, fine grain to medium grain, sub-angular, fair sorting, abundant clay-filling, very slightly calcareous; scattered siltstone, dark gray, carbonaceous; scattered shale, dark gray, carbonaceous.
- 5460-5470' Sandstone, gray, dark gray, fine grain to very fine grain, sub-angular, fair to well sorted, occasionally calcareous, occasionally clay-filled; siltstone, dark gray, occasionally carbonaceous, occasionally calcareous; shale, gray, dark gray, occasionally black, occasionally carbonaceous.
- 5470-5510' Sandstone, white, light gray, salt and pepper, fine grain, occasionally very fine grain, sub-angular, fair to well sorted, occasionally calcareous, clay-filled; shale, dark gray, gray, occasionally carbonaceous; siltstone, dark gray, occasionally carbonaceous; trace coal.
- 5510-5520' Shale, gray to dark gray, rare black, rare carbonaceous; siltstone, dark gray; rare sandstone, light gray, white, fine grain, sub-angular, fair sorting, calcareous, clay-filled.
- 5520-5540' Sandstone, white, salt and pepper, fine grain, sub-angular, fair sorting, calcareous, abundant clay-filling; scattered shale, gray, trace red, rare carbonaceous; rare siltstone, dark gray, occasionally carbonaceous.
- 5540-5580' Sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, fair to well sorted, calcareous, clay-filled; siltstone, dark gray, sandy, slightly calcareous, occasionally carbonaceous; shale, gray; trace coal.
- 5580-5650' Sandstone, white, salt and pepper, occasionally light gray to gray, fine grain, occasionally very fine grain, sub-angular, fair to well sorted, clay-filled, slightly calcareous; siltstone, dark gray, sandy, occasionally carbonaceous, slightly calcareous; shale, gray to dark gray, soft to firm, occasionally carbonaceous; trace coal, shaley.
- 5650-5730' Shale, gray, dark gray, black, soft to firm, occasionally carbonaceous; sandstone, white, light gray, salt and pepper, brown (?), fine grain, very fine grain, sub-angular, fair to well sorted, slightly calcareous, clay-filled; siltstone, dark gray, brown (?), occasionally carbonaceous; trace coal.
- 5730-5740' Sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, fair to well sorted, calcareous, clay-filled, slight trace fluorescence, very, very faint cut; shale, gray, dark gray, scattered siltstone, dark gray.
- 5740-5750' Shale, gray, dark gray, occasionally carbonaceous; sandstone, white, light gray, salt and pepper, fine grain, sub-angular, fair to well sorted, calcareous to slightly calcareous, clay-filled, slight trace fluorescence, very, very faint cut.

- 5750-5790' Shale, gray, dark gray, red, occasionally silty, occasionally carbonaceous; siltstone, dark gray, red, green-gray, occasionally carbonaceous; scattered sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, calcareous, clay-filled.
- 5790-5810' Sandstone, white, light gray, very fine grain to fine grain, sub-angular, fair to well sorted, clay-filled, slightly calcareous; shale, gray, dark gray, black, occasionally carbonaceous; siltstone, dark gray, occasionally sandy, occasionally carbonaceous.
- 5810-5860' Shale, gray, dark gray, red, black, soft to firm, occasionally carbonaceous; sandstone, white, light gray, gray, salt and pepper, fine grain, occasionally medium grain, very fine grain, sub-angular, poor to fair sorting, calcareous to slightly calcareous, clay-filled; siltstone, gray, dark gray, occasionally sandy, occasionally carbonaceous.
- 5860-5900' Sandstone, white, salt and pepper, fine grain to very fine grain, occasionally medium grain, sub-angular, fair to moderately well sorted, calcareous, clay-filled; trace spotty fluorescence, no cut; shale, gray, dark gray, red, firm to soft, commonly carbonaceous; scattered siltstone, dark gray, carbonaceous; trace to rare coal.
- 5900-5960' Interbedded sandstone, shale and siltstone; sandstone, white, light gray, salt and pepper, fine grain, occasionally medium grain, sub-angular, fair to moderately well sorted, clay-filled, slightly calcareous, trace fluorescence, no cut; shale, gray, dark gray, trace red, soft to firm, occasionally carbonaceous; siltstone, dark gray, occasionally carbonaceous; scattered coal; trace limestone, gray.
- 5960-6020' Shale, gray, light gray, black, red, soft to firm, occasionally carbonaceous; siltstone, light gray, gray, occasionally carbonaceous, calcareous; rare coal; trace sandstone, white, light gray, salt and pepper, fine grain, occasionally medium grain, sub-angular, poor to fair sorting, clay-filled, calcareous.
- 6020-6040' Shale, gray, dark gray, red, soft to firm, calcareous, occasionally carbonaceous; siltstone, dark gray, carbonaceous; scattered sandstone, white, light gray, salt and pepper, fine grain, occasionally medium grain and very fine grain, sub-angular, poor to moderately well sorted, commonly clay-filled, calcareous; trace limestone, gray, argillaceous.
- 6040-6090' Shale, gray, light gray, red, gray-green, ochre, soft to firm, occasionally carbonaceous; scattered coal; scattered siltstone, dark gray, gray, occasionally carbonaceous; sandstone, light

gray, white, fine grain, occasionally very fine grain to medium grain, sub-angular, fair to well sorted, commonly clay-filled, calcareous; slight trace limestone, gray, buff, argillaceous.

- 6090-6120' Shale, gray, light gray, red, gray-green, ochre, soft to firm, occasionally carbonaceous; scattered siltstone, dark gray, gray, occasionally carbonaceous; sandstone, light gray, white, fine grain, occasionally very fine grain to medium grain, sub-angular, poor to fair sorting, commonly clay-filled, calcareous; rare coal.
- 6120-6140' Shale, gray, dark gray, red, ochre, soft to firm, carbonaceous, calcareous; siltstone, gray, dark gray, calcareous, carbonaceous, occasionally sandy; occasionally coal; trace sandstone, light gray, very fine grain to fine grain, sub-angular, moderately well sorted, calcareous, clay-filled.
- 6140-6160 Sandstone, light gray, salt and pepper, fine grain, occasionally very fine grain, sub-angular, fair sorting, calcareous, abundant clay-filling; shale, gray, light gray, green-gray, very slightly calcareous, occasionally carbonaceous; scattered to rare coal.
- 6160-6200' Shale, gray, dark gray, black, red, slightly calcareous, occasionally carbonaceous; siltstone, dark gray, sandy, occasionally carbonaceous, calcareous; sandstone, light gray to white, salt and pepper, fine grain, occasionally very fine grain, sub-angular, fair to moderately well sorted; scattered coal (sandstone becoming more common in bottom 20 feet).
- 6200-6210' Sandstone, light gray, fine grain to very fine grain, sub-angular, fair sorting, very slightly calcareous to calcareous, clay-filled; scattered coal; scattered shale, gray, dark gray, occasionally carbonaceous; scattered siltstone, gray, occasionally carbonaceous, very slightly calcareous.
- 6210-6230' Sandstone, white, gray, salt and pepper, fine grain, sub-angular, fair to moderately well sorted, clay-filled, calcareous; shale, gray, dark gray, red, gray-green, occasionally carbonaceous, calcareous; siltstone, gray, dark gray, calcareous, occasionally carbonaceous, rare coal.
- 6230-6250' Sandstone, brown-white, white, gray, fine grain to very fine grain, sub-angular, fair sorting, clay-filled slightly calcareous to calcareous; siltstone, brown-gray, dark gray, sandy, carbonaceous, calcareous, becoming more common in bottom 10 feet; shale, brown-gray, silty; scattered coal.
- 6250-6280' Siltstone, brown-gray, dark gray, sandy, occasionally carbonaceous; shale, brown-gray, dark gray, occasionally carbonaceous;

- sandstone, dark gray, brown-gray, white, fine grain to very fine grain, sub-angular, poor to moderately well sorted, clay-filled, silty; scattered coal.
- 6280-6290' Siltstone, brown-gray, gray, dark gray, sandy, carbonaceous, calcareous; shale, gray, light gray; scattered coal.
- 6290-6320' Siltstone, dark gray, gray, sandy, commonly carbonaceous; shale, gray, dark gray, soft, carbonaceous; coal common; scattered sandstone, light gray, gray, white, salt and pepper, fine grain to very fine grain, rare medium grain, fair to poor sorting, occasionally calcareous, clay-filled, rare carbonaceous inclusions.
- 6320-6350' Shale, light gray, dark gray, green-gray, occasionally red, occasionally carbonaceous, calcareous; siltstone, dark gray, sandy, slightly calcareous, carbonaceous; sandstone, white, light gray, salt and pepper, fine grain to very fine grain, sub-angular, fair sorting, slightly calcareous, clay-filled; rare to scattered coal.
- 6350-6400' Shale, dark gray, light gray, green-gray, occasionally red, occasionally carbonaceous; siltstone, dark gray, sandy, carbonaceous; scattered coal; rare sandstone, white, light gray, brown-gray, fine grain to very fine grain, sub-angular, fair to poor sorting, slightly calcareous, clay-filled.
- 6400-6440' Shale, gray, gray-green, dark gray, red, carbonaceous, calcareous; coal; siltstone, light gray, dark gray, calcareous, occasionally carbonaceous; scattered sandstone, light gray, white, fine grain to very fine grain, sub-angular, fair sorting, calcareous, clay-filled.
- 6440-6450' Shale, gray, dark gray, gray-green, red, calcareous, occasionally carbonaceous; siltstone, gray, dark gray, calcareous, occasionally carbonaceous; coal, common; scattered sandstone, white, light gray, fine grain, occasionally very fine grain, sub-angular, fair sorting, clay-filled, calcareous.
- 6450-6460' Coal, very abundant; scattered sandstone, gray, gray-green, dark gray, red, calcareous; scattered siltstone, gray, brown, calcareous; scattered sandstone, white, fine grain, sub-angular, fair sorting, calcareous, clay-filled.
- 6460-6480' Shale, gray, dark gray, green-gray, red, occasionally carbonaceous, calcareous; coal; sandstone, white, light gray, gray, gray-green, fine grain, very fine grain, sub-angular, fair to well sorted, calcareous, clay-filled; siltstone, dark gray, gray, sandy, occasionally carbonaceous.

6480-6500'

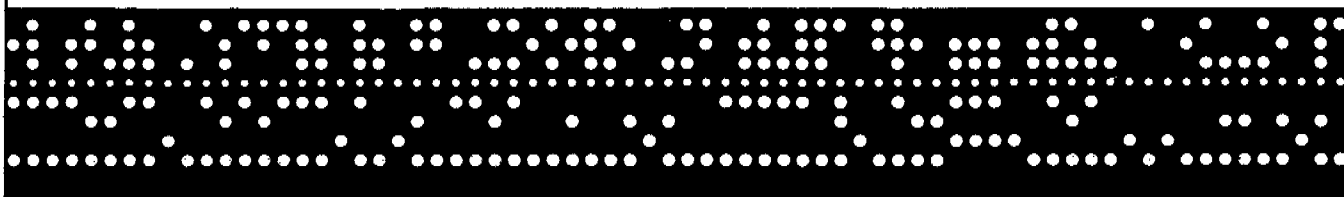
Sandstone, brown-gray, gray, white, very fine grain to fine grain, sub-angular, moderately well to poor sorting, calcareous, clay-filled; shale, gray, gray-green, red, calcareous; siltstone, gray, brown-gray, sandy, calcareous; common to occasional coal.

Circulation sample at total depth (at 60 minutes):  
Sandstone, light gray, light brown-gray, white, salt and pepper, fine grain to very fine grain, sub-angular, fair to well sorted, clay-filled, calcareous; coal; shale, gray, dark gray, green-gray; siltstone, gray, brown-gray, occasionally sandy

JOHNSTON

Schlumberger

computerized  
data  
analysis





## COMPUTERIZED DATA ANALYSIS

AUGUST 11, 1977

GENTLEMEN:

THE ENCLOSED TEST APPEARS TO BE A GOOD MECHANICAL DRILL STEM TEST DURING WHICH THE TOOLS DID FUNCTION PROPERLY. THE FORMATION PRODUCED ENOUGH RESERVOIR FLUID FOR PROPER IDENTIFICATION. RESERVOIR PRESSURE DRAWDOWN WAS SUFFICIENT AND ADEQUATE SHUT-IN BUILD-UPS DID OCCUR FOR RELIABLE QUANTITATIVE ANALYSIS. RESERVOIR PARAMETERS WERE CALCULATED BY THE MCKINLEY METHOD.

1. FLOW RATE: AN ESTIMATED FLOW RATE OF 7 MCF/DAY OF GAS WAS NOTED DURING THIS TEST.
2. RESERVOIR PRESSURE: EXTRAPOLATION OF THE INITIAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF 580 P.S.I.G. AT RECORDER DEPTH. EXTRAPOLATION OF THE FINAL SHUT-IN PRESSURE BUILD-UP INDICATES A MAXIMUM RESERVOIR PRESSURE OF 527 P.S.I.G. AT RECORDER DEPTH. THE DIFFERENCE BETWEEN THE INITIAL AND FINAL SHUT-IN PRESSURE OF 53 P.S.I.G. IS SIGNIFICANT BUT PROBABLY DUE TO INSUFFICIENT FINAL SHUT-IN TIME.
3. PERMEABILITY: THE CALCULATED TRANSMISSIBILITY FACTOR OF 18 MD.-FT./CP. INDICATES AN AVERAGE EFFECTIVE PERMEABILITY TO GAS OF .002 MD. FOR THE REPORTED 131 FOOT TEST INTERVAL. THE CALCULATIONS WERE BASED ON A MCKINLEY SLOPE OF 396 P.S.I./LOG CYCLE OBTAINED FROM THE FINAL SHUT-IN BUILD-UP PLOT. IT WAS ASSUMED FOR THESE CALCULATIONS: (A) GAS GRAVITY 0.70 (B) VISCOSITY .012 CP. (C) AND GAS DEVIATION FACTOR 0.95. THESE FIGURES WERE OBTAINED FROM THE AVAILABLE TECHNICAL LITERATURE.
4. WELL BORE DAMAGE: THE CALCULATED DAMAGE RATIO OF 1.29 INDICATES THAT MINOR WELL BORE DAMAGE IS PRESENT AT THE TIME AND CONDITIONS OF THIS TEST. THIS VALUE INFERS THAT THE RATE OF PRODUCTION OBSERVED AT THE FORMATION FACE DURING THIS TEST MAY BE INCREASED 1.29 TIMES IF THE WELL BORE DAMAGE ALONE WERE REMOVED.
5. RADIUS OF INVESTIGATION: THE CALCULATED RADIUS OF INVESTIGATION OF THIS TEST IS 1 FOOT BASED ON AN ASSUMED POROSITY OF 15%, COMPRESSIBILITY OF  $1.5 \times 10^{-3}$ , AND OTHER ASSUMPTIONS MADE IN NUMBER 3 ABOVE.
6. GENERAL COMMENTS: THE FORMATION EXHIBITS THE CHARACTERISTICS OF RELATIVELY LOW PERMEABILITY EFFECTIVE TO THE RESERVOIR FLUID AND INDICATES THE PRESENCE OF MINOR WELL BORE DAMAGE. THE CONTOUR OF THE BUILD-UP CURVES AND THE VOLUME OF GAS PRODUCED SUGGESTS A TIGHT FORMATION. BECAUSE OF THE NATURE OF THIS TEST, RESERVOIR PARAMETERS CALCULATED SHOULD BE USED WITH EXTREME CAUTION.

  
KENT ARCENEAUX  
RESERVOIR EVALUATION  
DEPARTMENT

PACIFIC TRANSMISSION SUPPLY COMPANY  
FEDERAL #44-5; UINTAH COUNTY, UTAH  
TEST 1; 6378' TO 6509'

LOCATION: SEC. 5, T-10S, R-24E

FIELD REPORT #09648 D

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not guarantee the accuracy or correctness of any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

## Gas Reservoir Engineering Data



Instrument No. J-294

Field Report No. 09648 D

|  |       |                    |                            |                  |       |                      |
|--|-------|--------------------|----------------------------|------------------|-------|----------------------|
| Damage Ratio                                       | DR    | 1.29               | Effective Transmissibility | $\frac{Kh}{\mu}$ | 18.0  | $\frac{Md-ft.}{Cp.}$ |
| Maximum Reservoir Pressure<br>INITIAL SHUT-IN      | $P_o$ | 575 P.S.I.G.       | Flow Rate ESTIMATED        | $Q_g$            | 7     | MCF./day             |
| Slope of Shut-in Curve<br>CALCULATED               | $M_g$ | 396 PSI./log cycle | Flow Rate                  | $Q$              | -     |                      |
| Potentiometric Surface<br>(Datum Plane, Sea Level) | PS    | 226 ft.            | Pressure Gradient          |                  | .092  | PSI./ft.             |
| Radius of Investigation                            |       | 1 ft.              | K (Effective to GAS)       |                  | 0.002 | Md.                  |

## Assumptions made for Calculations for Gas Recoveries

1.  $Q_g$  is taken as steady state flow and unless stated otherwise at standard conditions 14.7 P.S.I. and 60°F.
2.  $P_f$  is final formation flowing pressure at steady state flow.
3. Formation flow is taken as single phase flow. If liquid (condensate) is produced at surface, condensation is assumed to have occurred in drill pipe.
4. Radial flow is assumed.
5. Unless given, gas specific gravity is assumed to be 0.7 (air 1.0) and having pseudo critical temperature at 385° Rankin and pseudo critical pressure of 666 P.S.I.A.
6. Other standard radial flow, steady state assumptions.

## Empirical Equations:

$$1. EDR = \frac{P_o^2 - P_f^2}{M_g(\log T + 2.65)} \text{ where } M_g = \frac{P_i^2 - P_{io}^2}{\log \text{ Cycle}}$$

$$2. \text{Transmissibility } \frac{Kh}{\mu Z} = \frac{1637^\circ T_f Q_g}{M_g}$$

$$3. P.S. = [P_o \times 2.309 \text{ ft./PSI}] - [\text{Recorder depth to sea level.}]$$

$$4. \text{Radius of Investigation, } r_i, = \sqrt{\frac{Kt}{40\phi(1 - S_w)\mu c}} \text{ where } t = \text{time in days}$$

In making any interpretation, our employees will give Customer the benefit of their best judgment as to the correct interpretation. Nevertheless, since all interpretations are opinions based on inferences from electrical, mechanical or other measurements, we cannot, and do not, guarantee the accuracy or correctness or any interpretations, and we shall not be liable or responsible, except in the case of gross or wilful negligence on our part, for any loss, costs, damages or expenses incurred or sustained by Customer resulting from any interpretation made by any of our agents or employees.

ISI  
FR NO: 9648

500

400

300

200

100

PRESSURE (P.S.I.G.)

Log of  $\frac{T + \Delta T}{\Delta T}$



COMPUTERIZED  
PLOT

600  
FS1  
FR NO: 9648

PRESSURE (P.S.I.G.)

500

400

300

200

100

PAGE 4

2.0

1.0

0

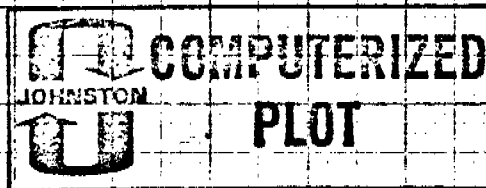
LOG OF  $\frac{I + \Delta I}{\Delta T}$



COMPUTERIZED  
PLOT

FSI

FR NO: 9648



MCKINLEY AFTERFLOW PLOT

1000

100

SHUT-IN TIME ( $\Delta T$ , MINUTES)

10

1

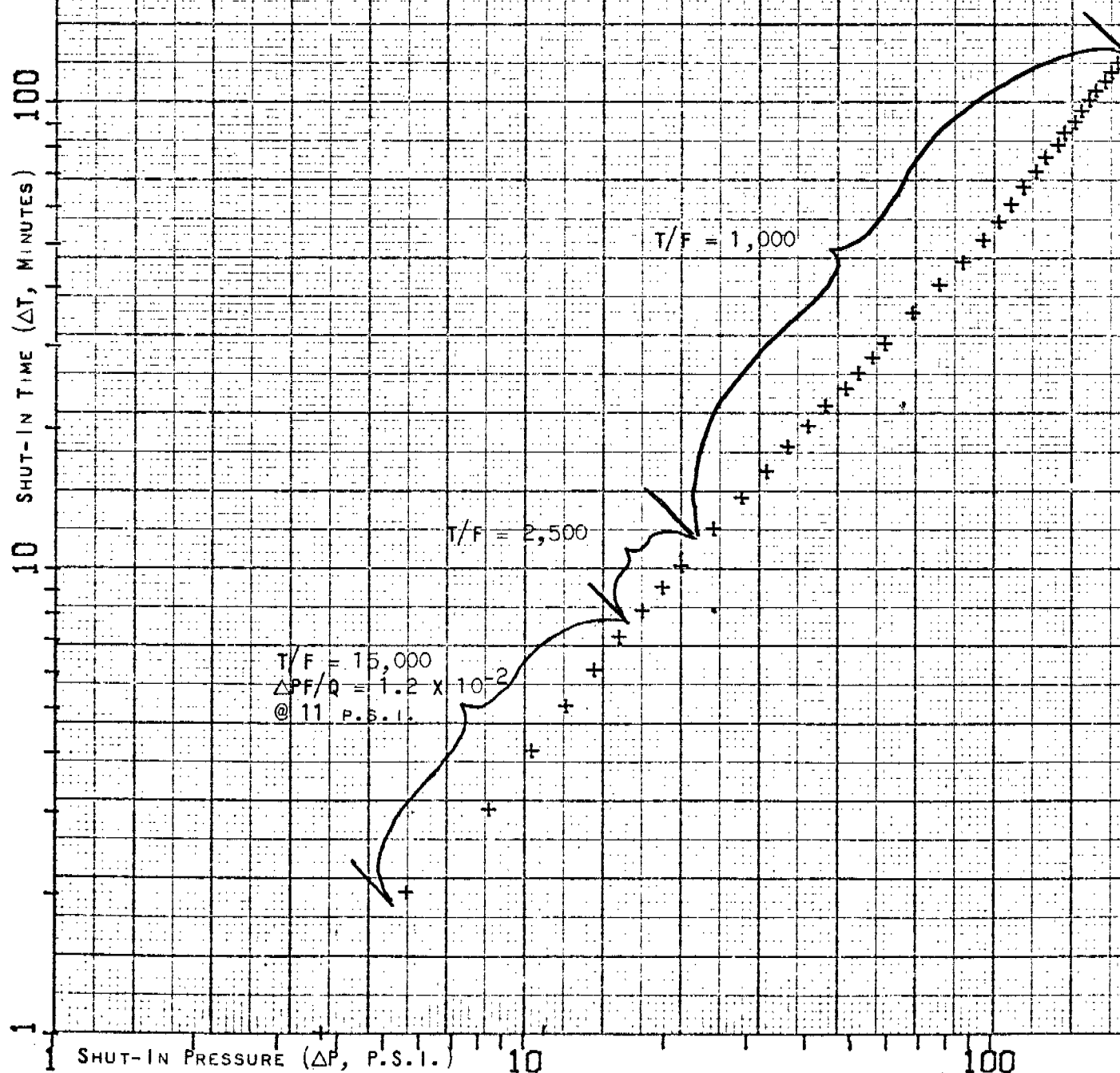
 $T/F = 1,000$  $T/F = 2,500$  $T/F = 15,000$  $\Delta P/F/Q = 1.2 \times 10^{-2}$ 

@ 11 P.S.I.

SHUT-IN PRESSURE ( $\Delta P$ , P.S.I.)

10

100



## EQUIPMENT & HOLE DATA

| EQUIPMENT & HOLE DATA    |                  |             |
|--------------------------|------------------|-------------|
| Type Test                | M.F.E. OPEN HOLE |             |
| Formation Tested         | MESA VERDE       |             |
| Elevation                | 5246             | GL. Ft.     |
| Net Productive Interval  | 131              | Ft.         |
| Estimated Porosity       | 15               | %           |
| All Depths Measured From | KELLY BUSHING    |             |
| Total Depth              | 6509             | Ft.         |
| Main Hole/Casing Size    | 7 7/8"           |             |
| Rat Hole/Liner Size      | -                |             |
| Drill Collar Length      | 463'             | I.D. 2 1/8" |
| Drill Pipe Length        | 5876'            | I.D. 3.80"  |
| Packer Depth(s)          | 6372 & 6378 Ft.  |             |

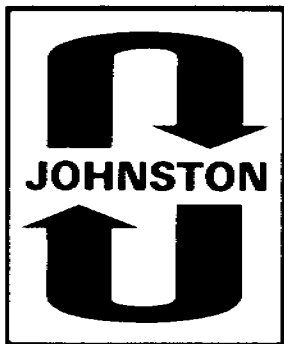
|                       |      |                     |
|-----------------------|------|---------------------|
| Sampler Pressure      | 50   | P.S.I.G. at Surface |
| Recovery: Cu. Ft. Gas | .25  |                     |
| cc. Oil               | -    |                     |
| cc. Water             | -    |                     |
| cc. Mud               | 2200 |                     |
| Tot. Liquid cc.       | 2200 |                     |
| Gravity               | -    | *API @ - *F.        |
| Gas/Oil Ratio         | -    | cu. ft./bbl.        |

|                         | RESISTIVITY  | CHLORIDE<br>CONTENT |
|-------------------------|--------------|---------------------|
| Recovery Water          | - @ - °F.    | - ppm               |
| Recovery Mud            | .23 @ 76 °F. |                     |
| Recovery Mud Filtrate   | .17 @ 76 °F. | 240,000 ppm         |
| Mud Pit Sample          | .15 @ 99 °F. |                     |
| Mud Pit Sample Filtrate | .10 @ 99 °F. | 260,000 ppm         |

|                  |             |             |             |      |
|------------------|-------------|-------------|-------------|------|
| Mud Type         | SALT MUD    | Wt.         | 8.7         |      |
| Viscosity        | 40          | Water Loss  | 11.8        | C.C. |
| Resist. of Mud   | .15 @ 99 °F | of Filtrate | .10 @ 99 °F |      |
| Chloride Content | 260,000     |             |             | PPM  |

[illegible]

No. Reports Requested 6 (5x)



# PRESSURE LOG\*

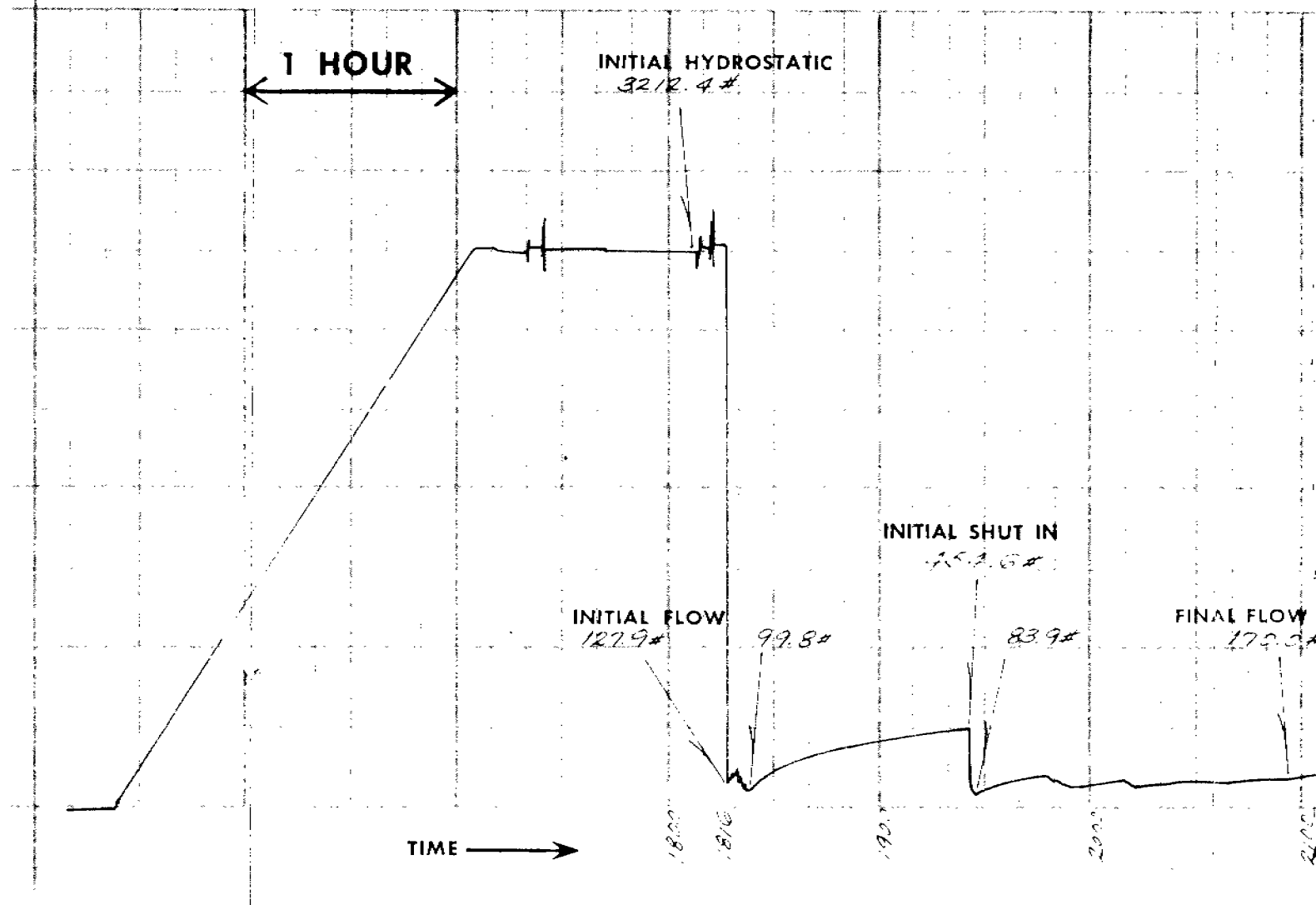
Field Report No. 09648 D

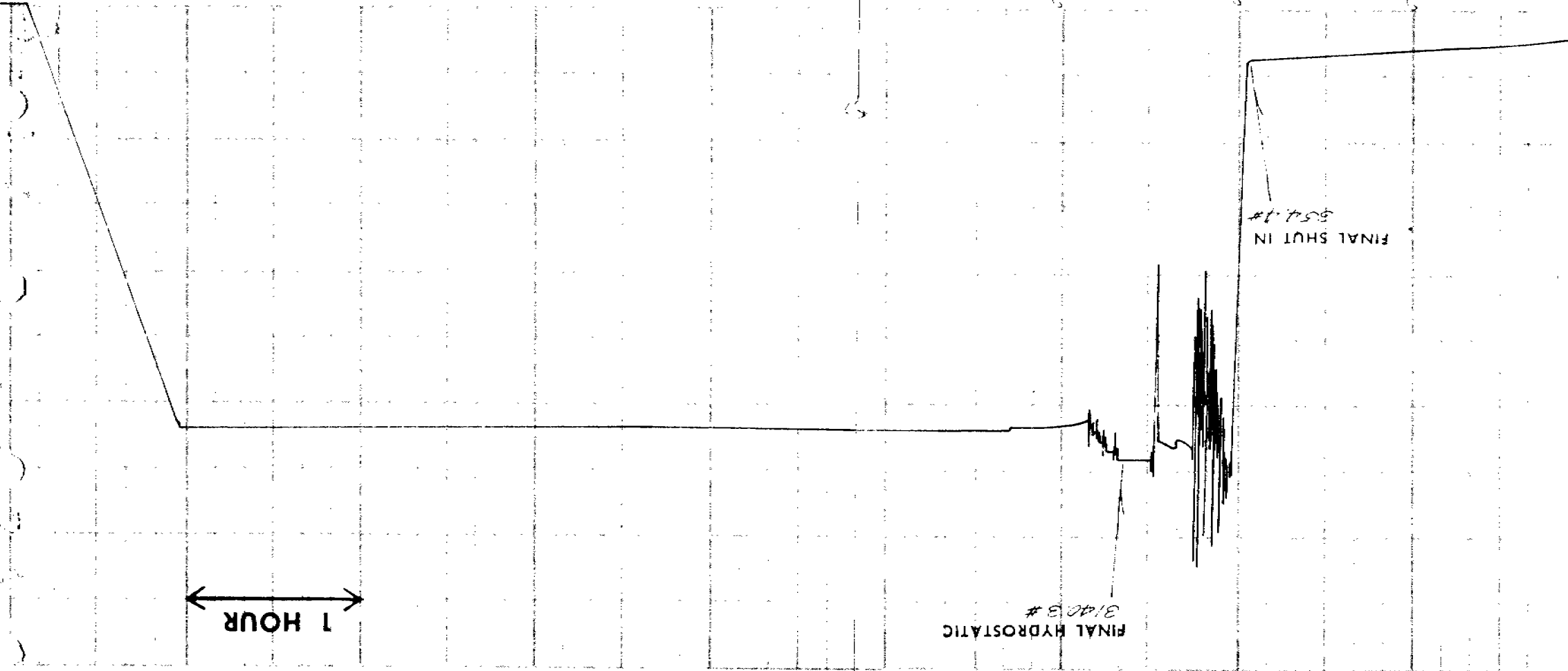
Instrument:  
Number J-294

Capacity 4700 p.s.i.

Depth 6380 ft.

\*a continuous tracing of the original chart





FINAL HYDROSTATIC  
31409 #

FINAL SHUT IN  
554.1 #

1 HOUR



PAGE NO. 7

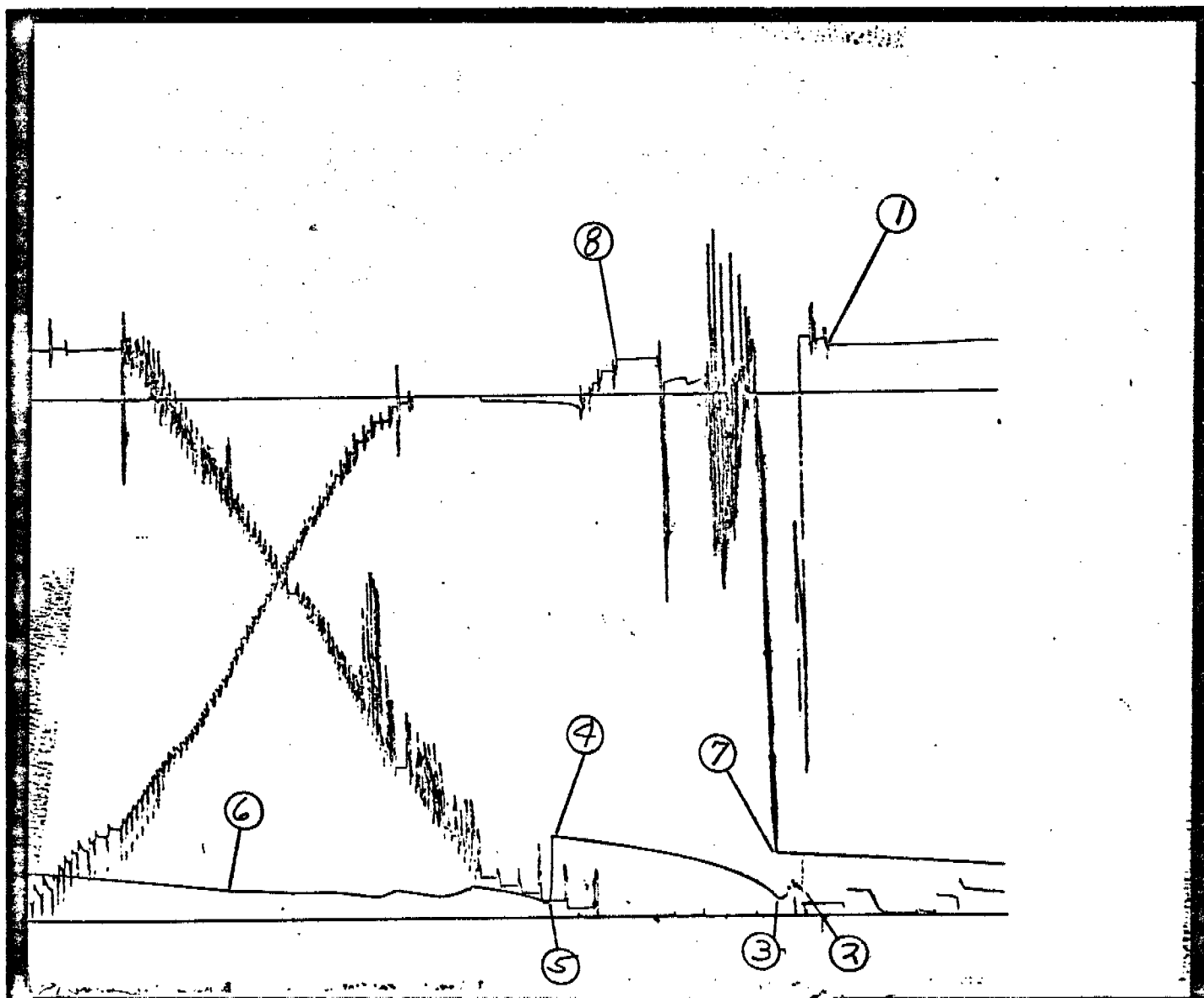
FIELD REPORT NO.: 09648 D

INSTRUMENT NO.: J-294

CAPACITY: 4700#

NO. OF REPORTS: 6-

PRESSURE DATA FROM THIS CHART IS PRESENTED ON NEXT PAGE



# BOTTOM HOLE PRESSURE AND TIME DATA



INSTRUMENT NO.: J-294

CAPACITY(P.S.I.): 4700

DEPTH: 6380 FT.

PORT OPENING: INSIDE

BOTTOM HOLE TEMP.: 168

PAGE 1 OF 2

| DESCRIPTION             | LABELED<br>POINTS | PRESSURE<br>(P.S.I.) | GIVEN<br>TIME | COMPUTED<br>TIME |
|-------------------------|-------------------|----------------------|---------------|------------------|
| INITIAL HYDROSTATIC MUD | 1                 | 3212.4               |               |                  |
| INITIAL FLOW(1)         | 2                 | 127.9                |               |                  |
| INITIAL FLOW(2)         | 3                 | 99.8                 | 7             | 7                |
| INITIAL SHUT-IN         | 4                 | 454.6                | 60            | 61               |
| FINAL FLOW(1)           | 5                 | 83.9                 |               |                  |
| FINAL FLOW(2)           | 6                 | 170.0                | 90            | 91               |
| FINAL SHUT-IN           | 7                 | 354.4                | 120           | 120              |
| FINAL HYDROSTATIC MUD   | 8                 | 3140.3               |               |                  |

## INCREMENTAL READINGS

| LABEL<br>POINT | DELTA<br>TIME | PRESSURE<br>(P.S.I.) | T + DT/DT | LOG   | PW - PF<br>(P.S.I.) | COMMENTS        |
|----------------|---------------|----------------------|-----------|-------|---------------------|-----------------|
| 1              |               | 3212.4               |           |       |                     | HYDROSTATIC MUD |
| 2              | 0             | 127.9                |           |       |                     | INITIAL FLOW(1) |
|                | 5             | 111.1                |           |       |                     |                 |
| 3              | 7             | 99.8                 |           |       |                     | INITIAL FLOW(2) |
| 3              | 0             | 99.8                 |           |       |                     | STARTED SHUT-IN |
|                | 5             | 180.3                | 2.400     | 0.380 | 80.5                |                 |
|                | 10            | 231.8                | 1.700     | 0.230 | 132.0               |                 |
|                | 15            | 271.1                | 1.467     | 0.166 | 171.3               |                 |
|                | 20            | 303.0                | 1.350     | 0.130 | 203.1               |                 |
|                | 25            | 330.1                | 1.280     | 0.107 | 230.3               |                 |
|                | 30            | 352.6                | 1.233     | 0.091 | 252.7               |                 |
|                | 35            | 373.2                | 1.200     | 0.079 | 273.3               |                 |
|                | 40            | 391.9                | 1.175     | 0.070 | 292.1               |                 |
|                | 45            | 408.7                | 1.156     | 0.063 | 308.9               |                 |
|                | 50            | 424.6                | 1.140     | 0.057 | 324.8               |                 |
|                | 55            | 438.7                | 1.127     | 0.052 | 338.9               |                 |
|                | 60            | 452.7                | 1.117     | 0.048 | 352.9               |                 |
| 4              | 61            | 454.6                | 1.115     | 0.047 | 354.8               | INITIAL SHUT-IN |
| 5              | 0             | 83.9                 |           |       |                     | FINAL FLOW(1)   |
|                | 5             | 112.0                |           |       |                     |                 |
|                | 10            | 139.1                |           |       |                     |                 |
|                | 15            | 158.8                |           |       |                     |                 |
|                | 20            | 176.6                |           |       |                     |                 |
|                | 25            | 158.8                |           |       |                     |                 |
|                | 30            | 127.9                |           |       |                     |                 |
|                | 35            | 136.3                |           |       |                     |                 |
|                | 40            | 151.3                |           |       |                     |                 |
|                | 45            | 155.0                |           |       |                     |                 |
|                | 50            | 127.9                |           |       |                     |                 |
|                | 55            | 141.0                |           |       |                     |                 |
|                | 60            | 153.2                |           |       |                     |                 |
|                | 65            | 157.9                |           |       |                     |                 |
|                | 70            | 156.0                |           |       |                     |                 |
|                | 75            | 157.9                |           |       |                     |                 |
|                | 80            | 163.5                |           |       |                     |                 |

| LABEL<br>POINT | DELTA<br>TIME | PRESSURE<br>(P.S.I.) | T + DT/DT | LOG   | PW - PF<br>(P.S.I.) | COMMENTS                         |
|----------------|---------------|----------------------|-----------|-------|---------------------|----------------------------------|
|                | 85            | 167.2                |           |       |                     |                                  |
|                | 90            | 169.1                |           |       |                     |                                  |
| 6              | 91            | 170.0                |           |       |                     | FINAL FLOW(2)<br>STARTED SHUT-IN |
| 6              | 0             | 170.0                |           |       |                     |                                  |
|                | 1             | 173.8                | 99.000    | 1.996 | 3.7                 |                                  |
|                | 2             | 175.6                | 50.000    | 1.699 | 5.6                 |                                  |
|                | 3             | 178.5                | 33.667    | 1.527 | 8.4                 |                                  |
|                | 4             | 180.3                | 25.500    | 1.407 | 10.3                |                                  |
|                | 5             | 182.2                | 20.600    | 1.314 | 12.2                |                                  |
|                | 6             | 184.1                | 17.333    | 1.239 | 14.0                |                                  |
|                | 7             | 185.9                | 15.000    | 1.176 | 15.9                |                                  |
|                | 8             | 187.8                | 13.250    | 1.122 | 17.8                |                                  |
|                | 9             | 189.7                | 11.889    | 1.075 | 19.7                |                                  |
|                | 10            | 191.6                | 10.800    | 1.033 | 21.5                |                                  |
|                | 12            | 195.3                | 9.167     | 0.962 | 25.3                |                                  |
|                | 14            | 199.0                | 8.000     | 0.903 | 29.0                |                                  |
|                | 16            | 202.8                | 7.125     | 0.853 | 32.8                |                                  |
|                | 18            | 206.5                | 6.444     | 0.809 | 36.5                |                                  |
|                | 20            | 210.3                | 5.900     | 0.771 | 40.3                |                                  |
|                | 22            | 214.0                | 5.455     | 0.737 | 44.0                |                                  |
|                | 24            | 218.7                | 5.083     | 0.706 | 48.7                |                                  |
|                | 26            | 221.5                | 4.769     | 0.678 | 51.5                |                                  |
|                | 28            | 225.3                | 4.500     | 0.653 | 55.2                |                                  |
|                | 30            | 229.0                | 4.267     | 0.630 | 59.0                |                                  |
|                | 35            | 237.4                | 3.800     | 0.580 | 67.4                |                                  |
|                | 40            | 246.8                | 3.450     | 0.538 | 76.8                |                                  |
|                | 45            | 256.1                | 3.178     | 0.502 | 86.1                |                                  |
|                | 50            | 265.5                | 2.960     | 0.471 | 95.5                |                                  |
|                | 55            | 273.0                | 2.782     | 0.444 | 103.0               |                                  |
|                | 60            | 279.5                | 2.633     | 0.421 | 109.5               |                                  |
|                | 65            | 287.0                | 2.508     | 0.399 | 117.0               |                                  |
|                | 70            | 293.6                | 2.400     | 0.380 | 123.6               |                                  |
|                | 75            | 300.1                | 2.307     | 0.363 | 130.1               |                                  |
|                | 80            | 307.6                | 2.225     | 0.347 | 137.6               |                                  |
|                | 85            | 312.3                | 2.153     | 0.333 | 142.3               |                                  |
|                | 90            | 319.8                | 2.089     | 0.320 | 149.8               |                                  |
|                | 95            | 325.4                | 2.032     | 0.308 | 155.4               |                                  |
|                | 100           | 331.0                | 1.980     | 0.297 | 161.0               |                                  |
|                | 105           | 335.7                | 1.933     | 0.286 | 165.7               |                                  |
|                | 110           | 343.2                | 1.891     | 0.277 | 173.2               |                                  |
|                | 115           | 349.8                | 1.852     | 0.268 | 179.7               |                                  |
| 7              | 120           | 354.4                | 1.817     | 0.259 | 184.4               | FINAL SHUT-IN<br>HYDROSTATIC MUD |
| 8              |               | 3140.3               |           |       |                     |                                  |

Contractor Anderson Drlg. Co.  
Rig No. 10  
Spot SE-SE  
Sec. 5  
Twp. 10 S  
Rng. 24 E  
Field Wildcat  
County Unitah  
State Utah  
Elevation 5246' "Ground"  
Formation Wasatch

Top Choke 1/4"  
Bottom Choke 3/4"  
Size Hole 7 7/8"  
Size Rat Hole --  
Size & Wt. D. P. 4 1/2"  
Size Wt. Pipe --  
I. D. of D. C. 2 1/4"  
Length of D. C. 552'  
Total Depth 6509'  
Interval Tested 4860-4880'  
Type of Test Inflate  
Straddle

**CONFIDENTIAL**

Flow No. 1 10 Min.  
Shut-in No. 1 60 Min.  
Flow No. 2 90 Min.  
Shut-in No. 2 180 Min.  
Flow No. 3 -- Min.  
Shut-in No. 3 -- Min.

Bottom  
Hole Temp. 120°F  
Mud Weight 9.5  
Gravity --  
Viscosity 45

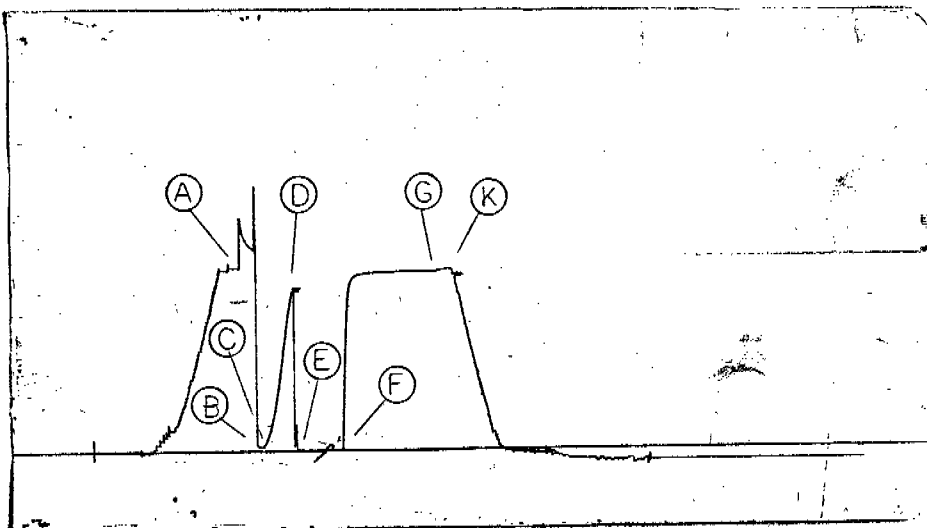
Tool opened @ 3:43 AM.

**Outside Recorder**

PRD Make Kuster K-3  
No. 12999 Cap. 6150 @ 4870'

|                     | Press | Corrected |
|---------------------|-------|-----------|
| Initial Hydrostatic | A     | 2452      |
| Final Hydrostatic   | K     | 2432      |
| Initial Flow        | B     | 97        |
| Final Initial Flow  | C     | 77        |
| Initial Shut-in     | D     | 2136      |
| Second Initial Flow | E     | 54        |
| Second Final Flow   | F     | 50        |
| Second Shut-in      | G     | 2398      |
| Third Initial Flow  | H     | --        |
| Third Final Flow    | I     | --        |
| Third Shut-in       | J     | --        |

Lynes Dist.: Rock Springs, Wy.  
Our Tester: Bill Womack  
Witnessed By: Ron Firth



Did Well Flow -- Gas Yes Oil No Water No  
RECOVERY IN PIPE: 45' Gas cut drilling mud = 0.22 bbl.  
(R.W. 0.35 @ 75°F = 17000 ppm. chl.)

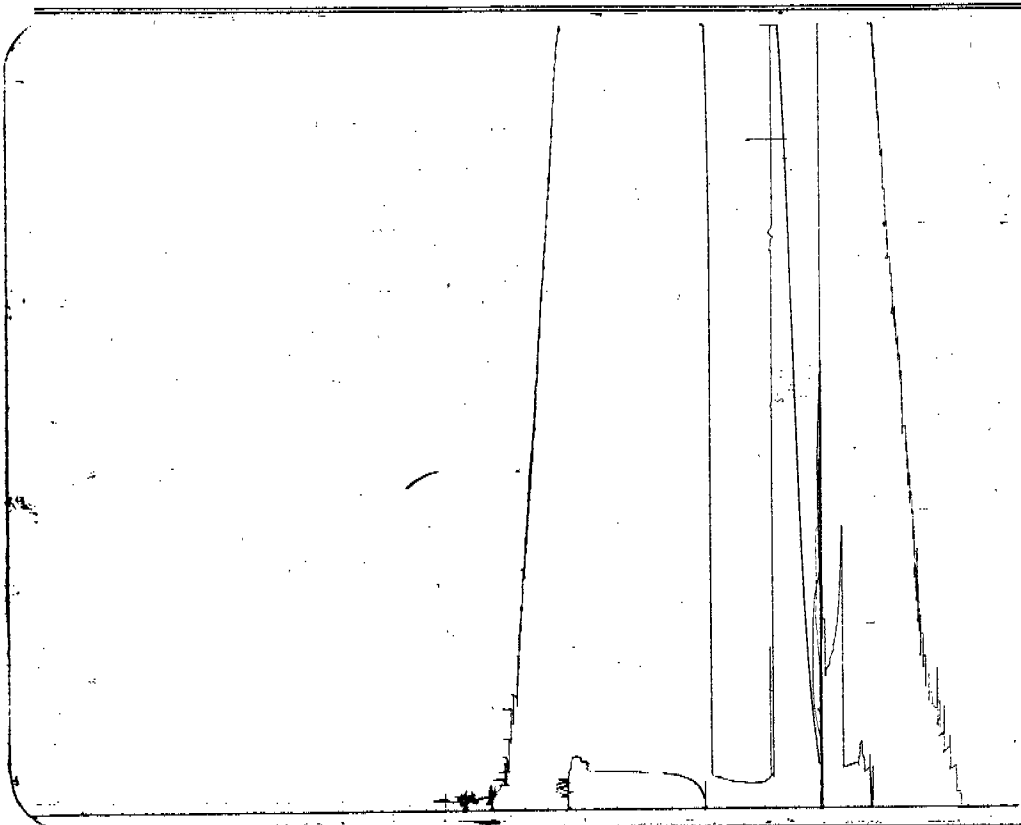
**REMARKS:**

1st Flow- Tool opened with 2" underwater blow, died in 5 minutes and remained dead thru flow period.  
2nd Flow- Tool opened with gas to surface immediately, see gas volume report.

Operator Pacific Transmission Supply Co. Well Name and No. PTS-Federal #44-5 DST No. 2  
Address See Distribution Ticket No. 7484 Date 8-4-77 No. Final Copies 6

# LYNES, INC.

Operator Pacific Transmission Supply Lease & No. PTS-Federal #44-5 DST No. 2



Inside Recorder  
PRD Make Kuster AK-1  
No. 4152 Cap. 2100 @ 4840'

| Press                                   |   | Corrected |
|---|---|-----------|
| Initial Hydrostatic                     | A | *         |
| Final Hydrostatic                       | K | *         |
| Initial Flow                            | B | *         |
| Final Initial Flow                      | C | *         |
| Initial Shut-in                         | D | *         |
| Second Initial Flow                     | E | 81        |
| Second Final Flow                       | F | 93        |
| Second Shut-in                          | G | *         |
| Third Initial Flow                      | H | --        |
| Third Final Flow                        | I | --        |
| Third Shut-in                           | J | --        |
| * Unreadable                            |   |           |
| Pressure Below Bottom<br>Packer Bled To |   |           |

PRD Make \_\_\_\_\_  
No. \_\_\_\_\_ Cap. \_\_\_\_\_ @ \_\_\_\_\_

| Press                                   |   | Corrected |
|---|---|-----------|
| Initial Hydrostatic                     | A |           |
| Final Hydrostatic                       | K |           |
| Initial Flow                            | B |           |
| Final Initial Flow                      | C |           |
| Initial Shut-in                         | D |           |
| Second Initial Flow                     | E |           |
| Second Final Flow                       | F |           |
| Second Shut-in                          | G |           |
| Third Initial Flow                      | H |           |
| Third Final Flow                        | I |           |
| Third Shut-in                           | J |           |
| Pressure Below Bottom<br>Packer Bled To |   |           |

**LYNES, INC.**

## Gas Volume Report

Operator Pacific Transmission Supply Co. Lease & No. PTS-Federal #44-5 DST No. 2

2nd Flow:

[illegible]

Remarks:

# LYNES, INC.

## Fluid Sample Report

Date 8-4-77 Ticket No. 7484  
Company Pacific Transmission Supply Co.  
Well Name & No. PTS-Federal #44-5 DST No. 2  
County Unitah State Utah  
Sampler No. -- Test Interval 4860-4880'

Pressure in Sampler 5 PSIG BHT 120 of

Total Volume of Sampler: 2600 cc.  
Total Volume of Sample: 1000 cc.  
Oil: None cc.  
Water: None cc.  
Mud: 1000 cc.  
Gas: 0.2 cu. ft.  
Other: None

Sampler: R.W. 0.35 @ 75°F = 17000 ppm. chl.

### Resistivity

Water: \_\_\_\_\_ @ \_\_\_\_\_ of Chloride Content \_\_\_\_\_ ppm.  
Mud Pit Sample 0.28 @ 78°F of Chloride Content 22000 ppm.  
Gas/Oil Ratio \_\_\_\_\_ Gravity \_\_\_\_\_ °API @ \_\_\_\_\_ of

Where was sample drained Lynes Shop - Rock Springs,

Remarks: Rig Water: R.W. 10.0 @ 70°F = 525 ppm. chl.

# LYNES, INC.

Operator Pacific Transmission Lease & No. PTS-Federal #44-5 DST No. 2  
Supply Company

---

Comments relative to the analysis of the pressure chart from DST #2, Interval: 4860-4880', which was run in the captioned well located in the SE SE Section 5, T10S-R24E, Uintah County, Utah:

Because of the essentially 100% gas recovery of this formation test, this analysis has been made by the use of the Horner method of pressure build-up curve extrapolation and the gas equations shown on the inside of the back cover of this report folder.

For purposes of this analysis, the following gas and reservoir properties and test parameters have been used:

$T_f = 580^\circ R$ ,  $\mu_g = 0.015$  cp.,  $Z = 0.85$ ,  $t = 100$  minutes,  
 $h = 8$  feet,  $m_g = 41,373.7$  psi<sup>2</sup>/log cycle.

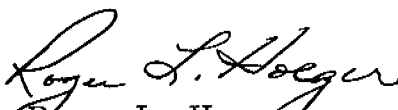
1. The character of the Initial Shut-in pressure build-up curve and its extrapolation plot indicate that "steady-state" conditions were not attained during this shut-in period. The extrapolated Initial Shut-in pressure of 3060 psi is therefore considered to be unreliable. Extrapolation of the Final Shut-in pressure build-up curve indicates a maximum reservoir pressure of 2400 psi at the recorder depth of 4870 feet.
2. The calculated Average Production Rate which was used in this analysis, 35.04 MCFPD, is based upon an average of the reported flow rates which were gauged during the 90-minute Final Flow period.
3. The calculated Damage Ratio of 57.9, which is based upon a comparison of the theoretical flow capacity to the indicated flow capacity (the flow rate which occurred during this drill-stem test), indicates that serious well-bore damage was present at the time of this formation test. The Damage Ratio implies that the production rate should have been 57.9 times greater than that which occurred (or 2028.8 MCFPD), if well-bore damage had not been present.



Pacific Transmission Supply Company,  
PTS-Federal #44-5  
Interval: 4860-4880' (DST #2)

Comments - Page 2

4. The calculated Effective Transmissibility of 683.5 md.-ft./cp. indicates an Average Permeability to gas of 1.28 md. for the reported 8 feet of effective porosity within the total 20 feet of interval tested.
5. The Radius of Investigation of this test is indicated by the relationship,  $b \approx 0.02 \sqrt{kt_o P_o}$ , to be about 11 feet.
6. The evaluation criteria used in the Drill-Stem-Test Analysis System indicate that the results obtained in this analysis should be reliable within reasonable limits relative to the assumptions which have been made.

  
Roger L. Hoeger  
Consultant for Lynes, Inc.

# LYNES, INC.

Operator Pacific Transmission Supply Lease & No. PTS-Federal #44-5 DST No. 2

Recorder No. 12999 @ 4870'

## FIRST SHUT IN PRESSURE:

| TIME(MIN)<br>PHI | (T"PHI)<br>/PHI | PSIG | PSIG SQ<br>/10 E6 |
|------------------|-----------------|------|-------------------|
| 0.0              | 0.0000          | 77   | 0.0059            |
| 6.0              | 2.6667          | 159  | 0.0253            |
| 12.0             | 1.8333          | 276  | 0.0762            |
| 18.0             | 1.5556          | 435  | 0.1892            |
| 24.0             | 1.4167          | 634  | 0.4020            |
| 30.0             | 1.3333          | 870  | 0.7569            |
| 36.0             | 1.2778          | 1142 | 1.3042            |
| 42.0             | 1.2381          | 1473 | 2.1697            |
| 48.0             | 1.2083          | 1788 | 3.1969            |
| 54.0             | 1.1852          | 2018 | 4.0723            |
| 60.0             | 1.1667          | 2136 | 4.5625            |

## SECOND SHUT IN PRESSURE:

| TIME(MIN)<br>PHI | (T"PHI)<br>/PHI | PSIG | PSIG SQ<br>/10 E6 |
|------------------|-----------------|------|-------------------|
| 0.0              | 0.0000          | 50   | 0.0025            |
| 18.0             | 6.5556          | 2275 | 5.1756            |
| 36.0             | 3.7778          | 2360 | 5.5696            |
| 54.0             | 2.8519          | 2378 | 5.6549            |
| 72.0             | 2.3889          | 2386 | 5.6930            |
| 90.0             | 2.1111          | 2391 | 5.7169            |
| 108.0            | 1.9259          | 2394 | 5.7312            |
| 126.0            | 1.7937          | 2397 | 5.7456            |
| 144.0            | 1.6944          | 2398 | 5.7504            |
| 162.0            | 1.6173          | 2398 | 5.7504            |
| 180.0            | 1.5556          | 2398 | 5.7504            |

EXTRAPLN OF SECOND SHUT IN : 2399.7 M : 41373.7

# LYNES, INC.

Operator Pacific Transmission Supply Lease & No. PTS-Federal #44-5 DST No. 2

Recorder No. 12999 @ 4870'

## RESERVOIR PARAMETERS:

|           |         |             |         |              |         |
|-----------|---------|-------------|---------|--------------|---------|
| RESRV TMP | 580.000 | BTM HOL TMP | 120.000 | SPEC GRAVITY | 0.700   |
| VISCOSITY | 0.015   | Z FACTOR    | 0.850   | DST GAS RT.  | 35.040  |
| WELL RAD. | 0.328   | PAY THICK   | 8.000   | SUBSEA DPTH  | 384.000 |
| WTR GRDNT | 0.433   |             |         |              |         |

## CALCULATIONS: SECOND SHUT IN

|                             |        |
|-----------------------------|--------|
| EXTRAP PRESS(PSIG).....     | 2399.7 |
| NO OF PTS ENTERED.....      | 11.0   |
| NO OF PTS USED.....         | 5.0    |
| RMS DEVIATION(Psi).....     | 0.000  |
| TOTL FLO TIM(MIN).....      | 100.0  |
| TRANSMISS(MD-FT/CP).....    | 683.5  |
| IN SITU CAP(MD-FT).....     | 10.3   |
| AVE EFFECT PERM(MD).....    | 1.28   |
| RAD OF INVEST(FT).....      | 11.1   |
| ACTUAL CAPACITY(MD-FT)..... | 0.2    |
| DAMAGE RATIO.....           | 57.9   |
| ESTIMATED DAMAGE RATIO..... | 29.9   |
| MAX AOF(MCF/D).....         | 35.1   |
| MIN AOF(MCF/D).....         | 35.0   |
| MAX AOF-DAMAGE(MCF/D).....  | 2029.4 |
| MIN AOF-DAMAGE(MCF/D).....  | 2028.9 |
| DRAWDOWN(PERCENT).....      | --     |
| POTENMETRC SURF(FT).....    | 5925.9 |

# LYNES UNITED SERVICES LTD.

WELL:

FEED 044-5 PTS

LOCN:

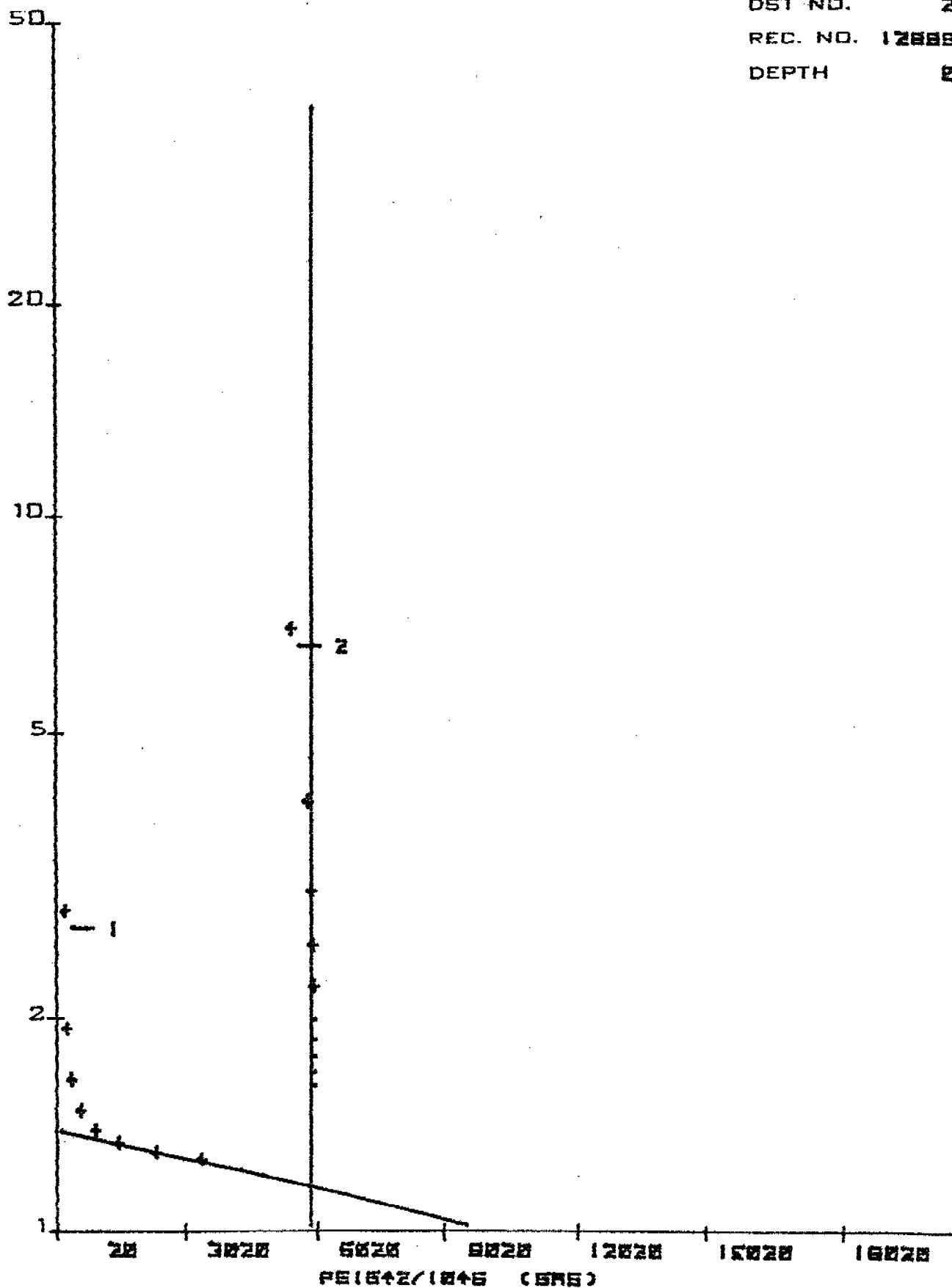
DATE: 8-4-77

DST NO. 2

REC. NO. 12888

DEPTH 8

CTD + PHID/PHI



PRESSURE EXTRAPOLATION PLOT

# LYNES, INC.

## Distribution of Final Reports

Operator Pacific Transmission Supply Co. Well Name and No. PTS-Federal #44-5

Original: Pacific Transmission Supply Co., Attn: D.E. Beardsley, Box 3093, Casper,  
Wyoming, 82602.

1 copy: Pacific Transmission Supply Co., Attn: J.L. Wroble, 633 17th St., Suite 2140,  
Denver, Colorado, 80202.

1 copy: Chorney Oil Co., Attn: L. Stanley, 401 Lincoln Tower Bldg., Denver, Colorado,  
80295.

1 copy: Almac Operating Co., Box 2352, Casper, Wyoming, 82602.

1 copy: U.S. Geological Survey, Attn: E.W. Guggn, 8426 Federal Bldg., Salt Lake City,  
Utah, 84138.


1 copy: Distribution of Oil, Gas, & Mining, Attn: P.L. Driscoll, 1588 W. North Temple,  
Salt Lake City, Utah, 84116.

# PACIFIC TRANSMISSION SUPPLY COMPANY

212 GOODSTEIN BUILDING  
P. O. BOX 3093  
CASPER, WYOMING 82602  
(307) 265-1027

September 12, 1977

Mr. L. Stanley  
CHORNEY OIL COMPANY  
401 Lincoln Tower Building  
Denver, Colorado 80295

Mr. Patrick L. Driscoll   
DIVISION OF OIL, GAS & MINING  
1588 West North Temple  
Salt Lake City, Utah 84116

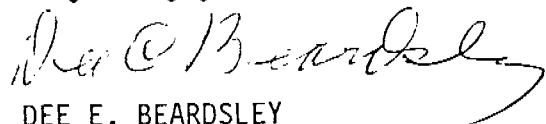
Mr. Edgar W. Guynn  
U. S. GEOLOGICAL SURVEY  
8426 Federal Building  
Salt Lake City, Utah 84138

Reference: PTS #44-5 Federal  
SE-SE Sec. 5, T10S, R24E  
Uintah County, Utah

Gentlemen,

We are enclosing herewith your required number of copies of the  
GEOLOGICAL WELL COMPLETION REPORT and DRILLING TIME AND GAS DETECTOR  
LOG for the above-captioned well.

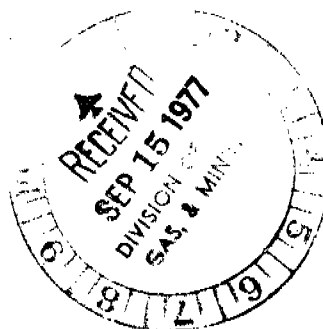
Very truly yours,



DEE E. BEARDSLEY  
District Manager

DEB:a  
cc: Mr. J. L. Wroble  
Mr. B. W. Allen

encl.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other ☐

2. NAME OF OPERATOR  
Pacific Transmission Supply Co.

3. ADDRESS OF OPERATOR  
P.O. Box 3093, Casper, Wyoming

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 651' FSL, 772' FEL, SE 1/4  
AT TOP PROD. INTERVAL: SE 1/4, Section 5  
AT TOTAL DEPTH: T10S, R24E

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| REQUEST FOR APPROVAL TO:            |                                     | SUBSEQUENT REPORT OF: |                          |
|-------------------------------------|-------------------------------------|-----------------------|--------------------------|
| TEST WATER SHUT-OFF                 | <input type="checkbox"/>            |                       | <input type="checkbox"/> |
| FRACTURE TREAT                      | <input type="checkbox"/>            |                       | <input type="checkbox"/> |
| SHOOT OR ACIDIZE                    | <input checked="" type="checkbox"/> |                       | <input type="checkbox"/> |
| REPAIR WELL                         | <input type="checkbox"/>            |                       | <input type="checkbox"/> |
| PULL OR ALTER CASING                | <input type="checkbox"/>            |                       | <input type="checkbox"/> |
| MULTIPLE COMPLETE                   | <input type="checkbox"/>            |                       | <input type="checkbox"/> |
| CHANGE ZONES                        | <input type="checkbox"/>            |                       | <input type="checkbox"/> |
| ABANDON*                            | <input type="checkbox"/>            |                       | <input type="checkbox"/> |
| (other) Perform workover operations |                                     |                       |                          |

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Present perforations: 4864' - 70' (6') w/ 4SPF.

Cumulative production: 52,369 MCF.

Well is presently shut in due to excessive water production. Well last produced in October 1978.

Propose to squeeze cement thru perforations 4864' - 70' w/ 100 sacks cement, WOC, and drill and clean out cement to PBD @ 4975'.

Perforate 4898' - 4918' (20') w/ 2SPF, acidize w/ 1500 gallons 7-1/2% mud cleanout acid and perform flowback to determine further workover procedures.

APPROVED BY THE DIVISION OF  
OIL, GAS, AND MINING

DATE: 3-12-79

BY: M. J. M.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_

18. I hereby certify that the foregoing is true and correct

SIGNED R. L. Fitch TITLE Petroleum Eng. DATE March 7, 1979

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:1-USGS, SLC, UT.; 1-St. of Ut.; Div. of OG&M; 1-JLWroble; 1-ERHenry; 1-EEMulholland;  
1-WGStelling; 1-File

\*See Instructions on Reverse Side

5. LEASE NO. U-1207

6. IF INDIAN, ALLOTTEE OR TRIBE NAME \_\_\_\_\_

7. UNIT AGREEMENT NAME Devils Playground

8. FARM OR LEASE NAME Federal

9. WELL NO. 44-5

10. FIELD OR WILDCAT NAME \_\_\_\_\_

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 5, T10S, R24E

12. COUNTY OR PARISH Uintah 13. STATE Utah

14. API NO. \_\_\_\_\_

15. ELEVATIONS (SHOW DF, KDB, AND WD) 5258' KDB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

PTS 44-5 Federal  
T10S, R24E, Sec. 5  
Devil's Playground Unit  
Uintah County, Utah

DST #1, 6387-6509 feet.

Pressures: IH 3211#  
FH 3211#  
IF 135-107# (10 minutes)  
FF 39-173# (90 minutes)  
ISI 464# (60 minutes)  
FSI 361# (120 minutes)

Slight blow at initial open, increasing to strong blow off bottom of bucket in 7 minutes; no gas to surface.

Second open with strong blow off bottom of bucket, gas to surface in 62 minutes at 1/4#, 1/4" choke with estimated rate of 19 MCF, decreasing to lazy flame at end of flow period.

| Time  | Pressure<br>psig | Choke   |
|-------|------------------|---------|
| 18:10 | 1-1/4" in water  | Surface |
| 18:13 | 15" in water     | 1/8"    |
| 18:18 | 3-3/4#           | 1/8"    |
| 18:23 | 3-3/4#           | 1/8"    |
| 19:23 | 3-3/4#           | 1/8"    |
| 19:25 | 3-3/4#           | 1/8"    |
| 19:26 | 4"               | 1/8"    |
| 19:30 | 6-1/2#           | 1/8"    |
| 19:35 | 6-1/4#           | 1/8"    |
| 19:45 | 6#               | 1/8"    |
| 20:10 | 5-1/2#           | 1/8"    |
| 20:25 | 5-1/2#           | 1/8"    |
| 20:27 | 1#               | 1/4"    |
| 20:33 | 0#               | 1/4"    |

Pipe recovery - 464 feet of drilling mud.

Sample chamber recovery - 2200 cc of mud, .25 cubic feet of gas at 50#; temperature 168 degrees F.

Resistivity of mud - .23 at 76 degrees F., 240,000 ppm chloride

Resistivity of pit - .10 at 99 degrees F., 260,000 ppm chloride



PTS 44-5 Federal  
T10S, R24E, Sec. 5  
Devil's Playground Unit  
Uintah County, Utah

DST #2, 4860-4880 feet.

Pressures: IH 2570#  
FH 2570#  
IF 255-153# (10 minutes)  
FF 127-127# (90 minutes)  
ISI 2313# (60 minutes)  
FSI 2568# (180 minutes)

Initial open with 2 inch blow, died after 5 minutes. Second open with good blow, gas to surface at following rates:

| <u>Time</u> | <u>Pressure</u> | <u>Choke</u> | <u>Rate</u> |
|-------------|-----------------|--------------|-------------|
| 0500        | 6#              | 1/4"         | 22.9 MCF/D  |
| 0510        | 6#              | 1/4"         | 22.9 "      |
| 0520        | 7#              | 1/4"         | 25 "        |
| 0530        | 8#              | 1/4"         | 27 "        |
| 0540        | 9#              | 1/4"         | 29 "        |
| 0550        | 11#             | 1/4"         | 32.4 "      |
| 0600        | 14#             | 1/4"         | 37.6 "      |
| 0610        | 19#             | 1/4"         | 45.5 "      |
| 0620        | 23#             | 1/4"         | 51.8 "      |
| 0630        | 26"             | 1/4"         | 56.3 "      |

Pipe recovery - 45 feet of drilling mud

Sample Chamber recovered 1000 cc mud, .2 cubic feet gas at 5# psig.

Temperature mis-run

Resistivity of mud - .35 ohms at 75 degrees F., 14,000 ppm chloride

*Natural Gas  
Corporation of  
California*

April 15, 1983

Mr. E. W. Guynn  
Bureau of Land Management  
Oil and Gas Operations  
1745 West 1700 South, Suite 2000  
Salt Lake City, UT 84104

Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Re: NGC #44-5 Federal  
SE $\frac{1}{4}$  SE $\frac{1}{4}$  Section 5, T.10S., R.24E.  
Uintah County, Utah

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells, Request for Approval to Temporarily Abandon the subject well.

Yours truly,

*William A. Ryan*

William A. Ryan

/kh

cc: Operations  
C. T. Clark  
E. R. Henry  
S. Furtado

RECEIVED  
APR 16 1983

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ well      gas ☒ well      other

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 651' FSL, 772' FEL SE $\frac{1}{4}$  SE $\frac{1}{4}$   
AT TOP PROD. INTERVAL: Sec. 5, T.10S., R.24E.  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| REQUEST FOR APPROVAL TO:           |                          | SUBSEQUENT REPORT OF:    |
|------------------------------------|--------------------------|--------------------------|
| TEST WATER SHUT-OFF                | <input type="checkbox"/> | <input type="checkbox"/> |
| FRACTURE TREAT                     | <input type="checkbox"/> | <input type="checkbox"/> |
| SHOOT OR ACIDIZE                   | <input type="checkbox"/> | <input type="checkbox"/> |
| REPAIR WELL                        | <input type="checkbox"/> | <input type="checkbox"/> |
| PULL OR ALTER CASING               | <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE                  | <input type="checkbox"/> | <input type="checkbox"/> |
| CHANGE ZONES                       | <input type="checkbox"/> | <input type="checkbox"/> |
| ABANDON*                           | <input type="checkbox"/> | <input type="checkbox"/> |
| (other) <u>Temporarily Abandon</u> |                          |                          |

5. LEASE  
U-1207

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Devils Playground

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
44-5

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 5, T.10S., R.24E.

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5258 KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Operator proposes to remove production equipment and approximately two miles of 3" surface gathering line.

Please see the attached map.

RECEIVED  
APR 16 1983

DIVISION OF  
OIL GAS & MINING

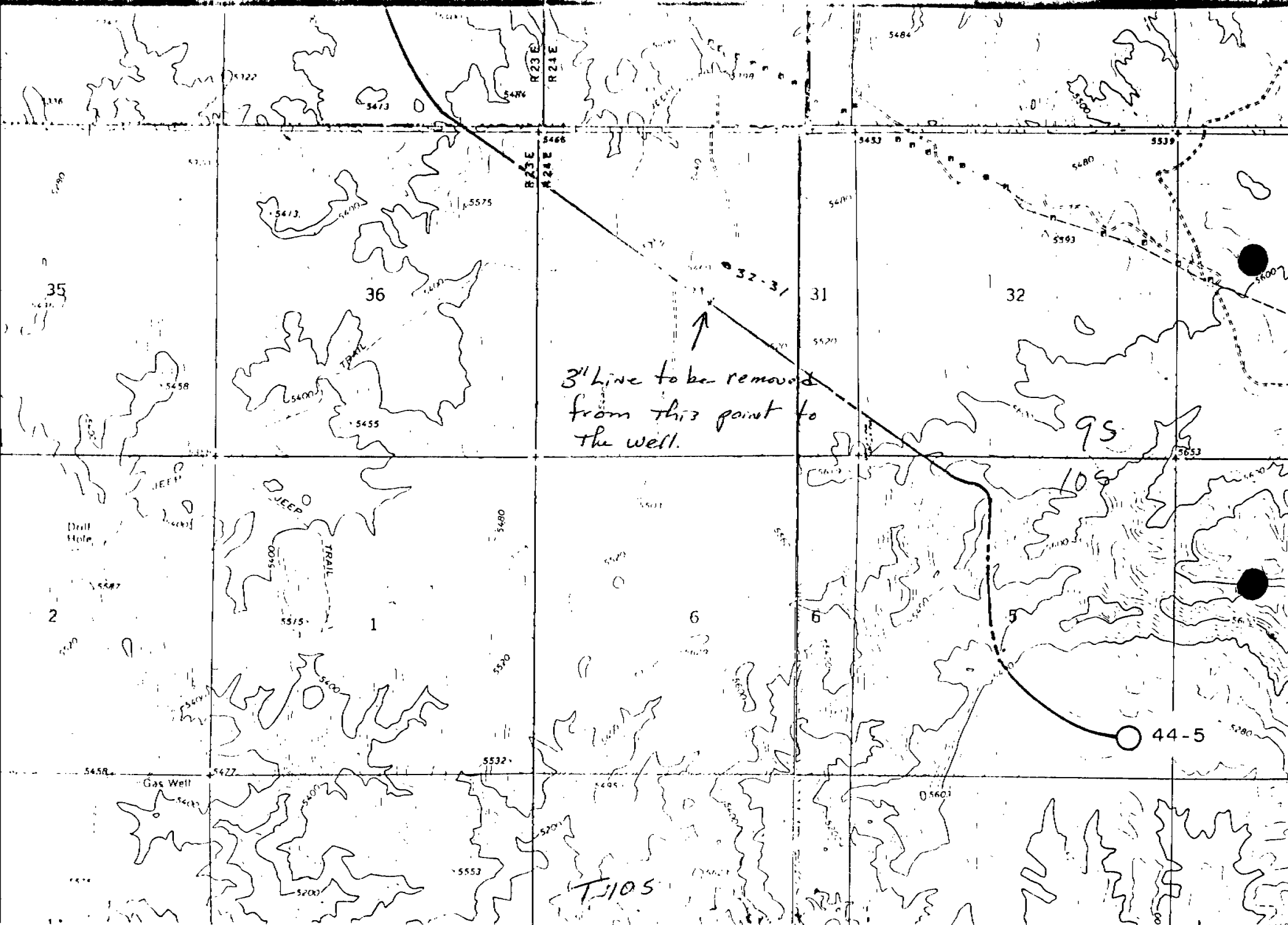
Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED William A. Ryan TITLE \_\_\_\_\_ DATE April 14, 1983  
William A. Ryan

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil ☐ gas ☒ other ☐

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 S. 200 E., Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 651' FSL + 772' FEL (SE $\frac{1}{4}$ SE $\frac{1}{4}$ ) of  
AT TOP PROD. INTERVAL: Section 5, T.10S., R.24E.  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| REQUEST FOR APPROVAL TO:                      | SUBSEQUENT REPORT OF:    |
|---|--------------------------|
| TEST WATER SHUT-OFF <input type="checkbox"/>  | <input type="checkbox"/> |
| FRACTURE TREAT <input type="checkbox"/>       | <input type="checkbox"/> |
| SHOOT OR ACIDIZE <input type="checkbox"/>     | <input type="checkbox"/> |
| REPAIR WELL <input type="checkbox"/>          | <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | <input type="checkbox"/> |
| MULTIPLE COMPLETE <input type="checkbox"/>    | <input type="checkbox"/> |
| CHANGE ZONES <input type="checkbox"/>         | <input type="checkbox"/> |
| ABANDON* <input checked="" type="checkbox"/>  | <input type="checkbox"/> |

(other) \_\_\_\_\_

5. LEASE  
U-1207

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Devils Playground

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
44-5

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 5, T.10S., R.24E.

12. COUNTY OR PARISH  
Utah

13. STATE  
Utah

14. API NO.  
43-047-30280

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5246 Un. Gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Operator plans to plug and abandon the subject well as per instructions received from Jimmy Raffoul, Bureau of Land Management, Oil and Gas Operations, by Rick Canterbury on 4-18-83.

- 1) Set a cast iron bridge plug at 4800' and place 25 sxs. cement on top of it.
- 2) Cut 4-1/2" casing at approximately 1500' and set 200' cement plug above the stub and a 200' cement plug in the top of the 4-1/2" casing.
- 3) Set a cement plug in the 8-5/8" casing between 200' and 500'.
- 4) Set a 25 sx. surface plug in the 8-5/8". Also a 50' cement plug will be set in the top of the annulus between the 8-5/8" and 13-3/8" casing.

The production pit will then be backfilled, location will be rehabilitated as specified in the BLM requirements.  
Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Rick Canterbury TITLE Assoc. Engineer DATE April 19, 1983  
Rick Canterbury

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

**APPROVED BY THE STATE**  
**OF UTAH DIVISION OF**  
**OIL, GAS, AND MINING**

cc: Div. OG&M; CTCIark; ERHenry; SFurtado; Operations

DATE: 4/19/83  
BY: [Signature]

\*See Instructions on Reverse Side

*Natural Gas  
Corporation of  
California*

April 19, 1983

Mr. E. W. Guynn  
Bureau of Land Management  
Oil and Gas Operations  
1745 West 1700 South, Suite 2000  
Salt Lake City, UT 84104

Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Re: NGC #44-5 Federal  
SE $\frac{1}{4}$  SE $\frac{1}{4}$  Section 5, T.10S., R.24E.  
Uintah County, Utah

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells, Request for Approval to Abandon the subject well.

Yours truly,

*Rick Canterbury*

Rick Canterbury  
Associate Engineer

/kh

cc: Operations  
C. T. Clark  
E. R. Henry  
S. Furtado

RECEIVED  
APR 20 1983

DIVISION OF  
OIL, GAS & MINING



STATE OF UTAH  
NATURAL RESOURCES & ENERGY  
Oil, Gas & Mining

Scott M. Matheson, Governor  
Temple A. Reynolds, Executive Director  
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

April 21, 1983

Natural Gas Corporation of California  
85 South 200 East  
Vernal, Utah 84078  
Att: Rick Canterbury

Re: Well No. NGC Federal # 44-5  
Sec. 5, T. 10S, R. 24E.  
Uintah County, Utah

Dear Mr. Canterbury:

According to Sundry reports received from your company, this well is now operated by you. We have not received the proper information stating that your company is now operator of this well. If you have resumed operations on this well, it is your responsibility as current operator to submit those changes to this office. Please send in those changes stated on a Sundry Notice OGC-1b (enclosed). If your company has not taken over responsibility of this well, please explain why your office is sending in the reports for this well.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our company.

Thank you for your prompt attention to the above matter.

Respectfully,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Well Records Specialist

CF/cf  
Enclosures

Board/Charles R. Henderson, Chairman • John L. Bell • E. Steele McIntyre • Edward T. Beck  
Robert R. Norman • Margaret R. Bird • Herm Olsen

an equal opportunity employer • please recycle paper

*Natural Gas  
Corporation of  
California*



NGC NGC NGC NGC NGC NGC NGC NGC NGC NGC NGC NGC NGC NGC NGC

June 6, 1983

Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Re: NGC #44-5 Federal  
SE $\frac{1}{4}$  SE $\frac{1}{4}$  Section 5, T.10S., R.24E.  
Uintah County, Utah  
Devils Playground Unit

Gentlemen:

Attached are copies of Form OGC-1b, Sundry Notices and Reports on Wells,  
Notification of Operator for the subject well.

Sincerely,

*Rick Canterbury*

Rick Canterbury  
Associate Engineer

/kh

cc: Operations  
C. T. Clark  
E. R. Henry

RECEIVED  
JUN 06 1983

DIVISION OF  
OIL, GAS & MINING



**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS, AND MINING**

5. LEASE DESIGNATION AND SERIAL NO.

U-1207

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**SUNDRY NOTICES AND REPORTS ON WELLS**(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

7. UNIT AGREEMENT NAME

Devils Playground

8. FARM OR LEASE NAME

Federal

9. WELL NO.

44-5

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR S.E.C. AND  
SURVEY OR AREA

Section 5, T.10S., R.24E.

12. COUNTY OR PARISH

Uintah

13. STATE

Utah

14. PERMIT NO.

43-047-30280

15. ELEVATIONS (Show whether DF, ST, CR, etc.)

5246' Un. Gr.

16.

**Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

## NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANE

## SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Natural Gas Corporation of California is the Operator of the Devils Playground Unit  
 and the Operator of Well #44-5.

**RECEIVED**  
 JUN 06 1983

**DIVISION OF  
 OIL, GAS & MINING**

18. I hereby certify that the foregoing is true and correct

SIGNED

*Rick Canterbury*  
 Rick Canterbury

TITLE Associate Engineer

DATE June 6, 1983

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

cc: Div. OG&amp;M; Operations, CTCIark; ERHenry

\*See Instructions on Reverse Side

*Natural Gas  
Corporation of  
California*

June 6, 1983

Mr. E. W. Guynn  
Bureau of Land Management  
Oil and Gas Operations  
1745 West 1700 South, Suite 2000  
Salt Lake City, UT 84104

Mr. R. J. Firth  
Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Re: NGC #44-5 Federal  
SE½ SE¼ Section 5, T.10S., R.24E.  
Uintah County, Utah  
Devils Playground Unit

**Gentlemen:**

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells, Request for Approval to Abandon the subject well.

Sincerely,

*Rick Canterbury*  
Rick Canterbury  
Associate Engineer

/kh

cc: Operations  
C. T. Clark  
E. R. Henry  
S. Furtado

RECEIVED  
JUN 13 1973

DIVISION OF  
GAS & MINING

85 South 200 East  
Vernal, Utah 84078  
(801) 789-4573

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for well proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR  
Natural Gas Corporation of California

3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 651' FSL and 772' FEL (SE $\frac{1}{4}$  SE $\frac{1}{4}$ )  
AT TOP PROD. INTERVAL: Section 5, T.10S., R.24E.  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☒  
(other)

SUBSEQUENT REPORT OF:

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☐  
☐

8. LEASE NO. 1207  
INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME  
Devils Playground

8. FARM OR LEASE NAME  
Federal

9. WELL NO.  
44-5

10. FIELD OR WILDCAT NAME

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
Section 5, T.10S., R.24E.

12. COUNTY OR PARISH  
Uintah

13. STATE  
Utah

14. API NO.  
43-047-30280

15. ELEVATIONS (SHOW DF, KDB, AND WD)  
5246' Un. Gr.

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Operator requests that the plugging procedure for this well submitted on a Sundry Notice on 4/19/83, be cancelled and the following procedure will be used as discussed with Jimmy Raffoul on June 8, 1983:

- 1) The casing will be left in place.
- 2) Set a CIBP at 4300' and place 25 sx of cement on top of it.
- 3) Perforate the 4 $\frac{1}{2}$ " casing at 2400' and squeeze with 70 sx of cement.
- 4) Set plug in the 4 $\frac{1}{2}$ " casing from 2400' to 2100'.
- 5) A 200' surface plug will be placed in the annulus between the 13-3/8" and 8-5/8" casing and 200' surface plug in the annulus between the 8-5/8" and 4 $\frac{1}{2}$ " casing and a 200' surface plug will be placed in the 4 $\frac{1}{2}$ " casing.

~~RECEIVED~~ BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ DATE \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Rick Canterbury BY [Signature] TITLE Associate Engr. DATE June 8, 1983

(This space for Federal or State office use)

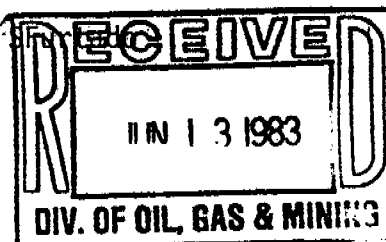
APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

cc: BLM; Div. OG&M; Operations; CTCIark; ERHenry;

\*See Instructions on Reverse Side



*Natural Gas  
Corporation of  
California*

June 23, 1983

Mr. E. W. Gynn  
Bureau of Land Management  
Oil and Gas Operations  
1745 West 1700 South, Suite 2000  
Salt Lake City, UT 84104

Mr. R. J. Firth  
Division of Oil, Gas & Mining  
4241 State Office Building  
Salt Lake City, UT 84114

Re: NGC #44-5 Federal  
SE $\frac{1}{4}$  SE $\frac{1}{4}$  Section 5, T.10S., R.24E.  
Uintah County, Utah  
Devils Playground Unit

Gentlemen:

Attached are copies of Form 9-331, Sundry Notices and Reports on Wells,  
Subsequent Report of Abandonment for the subject well.

Sincerely,

*Rick Canterbury*

Rick Canterbury  
Associate Engineer

/kh

cc: Operations  
C. T. Clark  
E. R. Henry  
S. Furtado

RECEIVED  
JUN 27 1983

DIVISION OF  
OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such purposes.)

1. oil ☐ gas ☒ other2. NAME OF OPERATOR  
Natural Gas Corporation of California3. ADDRESS OF OPERATOR  
85 South 200 East, Vernal, UT 840784. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)  
AT SURFACE: 651' FSL and 772' FEL (SE $\frac{1}{2}$  SE $\frac{1}{2}$ )  
AT TOP PROD. INTERVAL: Sec. 5, T.10S., R.24E.  
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

## REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐  
FRACTURE TREAT ☐  
SHOOT OR ACIDIZE ☐  
REPAIR WELL ☐  
PULL OR ALTER CASING ☐  
MULTIPLE COMPLETE ☐  
CHANGE ZONES ☐  
ABANDON\* ☐  
(other) ☒

## SUBSEQUENT REPORT OF:

☐  
☐  
☐  
☐  
☐  
☐  
☐  
☒

JUN 27 1983

DIVISION OF  
OIL, GAS & MINING

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Operator plugged and abandoned this well 6/17/83 as follows:

- 1) Set CIBP at 4850'.
- 2) Displaced hole w/9#/gal. mud.
- 3) Placed 25 sx of cement on CIBP.
- 4) Perforated 4 $\frac{1}{2}$ " casing @ 2402' 6" apart w/180° phase, 3-3/8" gun.
- 5) Breakdown and establish circ. between 4 $\frac{1}{2}$ " and 8-5/8" casing.
- 6) Set 4 $\frac{1}{2}$ " cement retainer at 2390'.
- 7) Pump 110 sx of cement between 4 $\frac{1}{2}$ " & 8-5/8" csg. (530') Plug @ 1860'-2400'.
- 8) Placed 25 sx of cement on cement retainer & pressure tested to 1500#.
- 9) Placed 16.8 sx cement between 4 $\frac{1}{2}$ " & 8-5/8" csg. and 13 sx cement in 4 $\frac{1}{2}$ " csg.
- 10) Will place dry hole marker and rehabilitate location per BLM recommendations.

Subsurface Safety Valve: Manu. and Type \_\_\_\_\_ Set @ \_\_\_\_\_ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED Rick Canterbury TITLE Assoc. Engineer DATE June 23, 1983  
Rick Canterbury

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

cc: BLM, Oil and Gas Operations; Div. OG&amp;M; Operations: CTC Clark; ER Henry; SFurtado

RECEIVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE: 6/23/83  
BY: [Signature]

\*See Instructions on Reverse Side



**EPS Resources Corporation**

Kennedy Center  
10200 E. Girard Ave. Bldg. B. Suite 225  
Denver, Colorado 80231  
(303) 696-2854

November 12, 1986

**RECEIVED**  
NOV 14 1986

**DIVISION OF  
OIL, GAS & MINING**

Ms. Claudia L. Jones  
State of Utah Natural Resources  
355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203

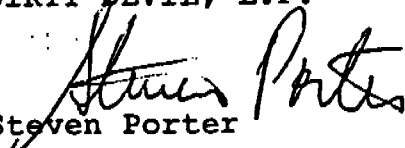
Dear Claudia:

As per our conversation, the Dirty Devil, L.P. is Operator of the Dirty Devil Unit. The Unit was formed August 17, 1984 when the Participating Area was approved for Unit well no. 22-27 on October 15, 1986.

The Dirty Devil, L.P. will be reporting production quantities as of November 1, 1986, for all wells within the unit. To expedite reporting of the Dirty Devil 11-29 well, enclosed are production reports for September and October. The well has been tested and is awaiting a pipeline. Production of the well is expected to commence in December.

Sincerely,

DIRTY DEVIL, L.P.

  
Steven Porter

SP/ng

THE DIRTY DEVIL, L.P. - OPERATOR  
GAS WELLS IN THE DIRTY DEVIL UNIT

022010

| <u>Well Name</u>   | <u>Location</u>  | <u>Lease #</u> |
|--------------------|--|----------------|
| 1. Well No. 31-15A | NW/4NE/4 Section 15<br>T9S-R24E<br>SLM<br>Uintah County, Utah<br>API #4304731726 | ML-28042       |
| 2. Well No. 32-31  | SW/4NE/4 Section 31<br>T9S-R24E<br>SLM<br>Uintah County, Utah<br>API #4304731010 | U-9215         |
| 3. Well No. 44-5   | SE/4SE/4 Section 5<br>T10S-R24E<br>SLM<br>Uintah County, Utah<br>API #4304730280 | U-1207 PA      |
| 4. Well No. 11-29  | NW/4NW/4 Section 29<br>T9S-R24E<br>SLM<br>Uintah County, Utah<br>API #4304731617 | ML - 22161     |
| 5. Well No. 23-20  | NE/4SW/4 Section 20<br>T9S-R24E<br>SLM<br>Uintah County, Utah<br>API #4304731009 | U-31266        |
| 6. Well No. 23-17  | NE/4SW/4 Section 17<br>T9S-R24E<br>SLM<br>Uintah County, Utah<br>API #4304730568 | U-31266        |
| 7. Well No. 22-27  | SE/4NW/4 Section 27<br>T9S-R24E<br>SLM<br>Uintah County, Utah<br>API #4304731507 | SL-071725-C    |
| 8. Well No. 41-9   | NE/4NE/4 Section 9<br>T9S-R24E<br>SLM<br>Uintah County, Utah<br>API #4304730339  | U-5217         |

**DIRTY DEVIL UNIT**  
**GAS WELLS**

9. Well No. 1-18

NW/4NE/4 Section 18  
T9S-R24E  
SLM  
Uintah County, Utah  
API #4304730124

U-0145459





# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
UTAH STATE OFFICE  
324 SOUTH STATE, SUITE 301  
SALT LAKE CITY, UTAH 84111-2303

IN REPLY REFER TO

3160  
(U-922)

October 15, 1986

Dirty Devil, L.P.  
10200 East Girard Ave.  
Suite E 225  
Denver, CO 80231

Re: Wasatch Formation Participating Area  
Dirty Devil Unit  
Uintah County, Utah

Gentlemen:

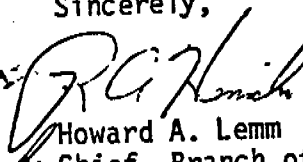
Your application of August 22, 1986, originally filed by Hiko Bell Mining and Oil Company, requests an Initial Wasatch Formation Participating Area "A" of 320.00 acres. The application is to be named the Wasatch Formation Participating Area and is approved effective as of August 17, 1984, pursuant to Section 11 of the Dirty Devil Unit Agreement, Uintah County, Utah.

This participating area is based upon the completion of Unit Well No. 22-27, in the SE $\frac{1}{4}$  NW $\frac{1}{4}$ , Section 27, T. 9 S., R. 24 E., SLM, Federal Unit Tract No. 1, Lease No. SL-071725C, as being a well capable of producing unitized substances in paying quantities. Enclosed is a schedule showing the lands and their percentage of allocation in the participating area. At this time, leases U-14233 and U-38433 are considered unleased tracts, pending outcome of appeals, and should not receive any allocation of revenues.

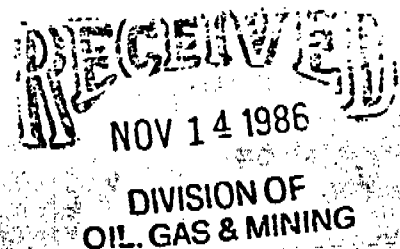
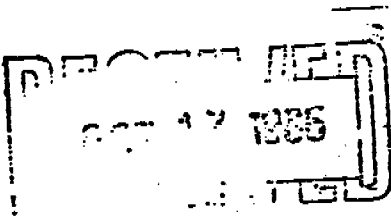
Copies of the approved request are being distributed to the appropriate agencies and one copy is returned herewith. Please advise all interested parties of the establishment of the Wasatch Formation Participating Area.

In accordance with Section 11 and 32 of the Dirty Devil Unit, the Devils Playground Unit No. 14-08-0001-16086 automatically terminated August 17, 1984, and associated participating areas with the Devils Playground Unit are now incorporated into the Dirty Devil Unit.

Sincerely,

*Acting*   
Howard A. Lemm  
Chief, Branch of Fluid Minerals

Enclosure





# United States Department of the Interior

BUREAU OF LAND MANAGEMENT  
UTAH STATE OFFICE  
324 SOUTH STATE, SUITE 301  
SALT LAKE CITY, UTAH 84111-2303

IN REPLY REFER TO

October 9, 1986

Dirty Devil, L.P.  
10200 East Girard Ave., Suite E225  
Denver, Colorado 80231

Re: Successor of Operator  
Dirty Devil Unit  
Uintah County, Utah

Gentlemen:

We received an indenture dated October 8, 1986, whereby Hiko Bell Mining and Oil Company resigned as Operator and Dirty Devil, L.P. was designated as Operator for the Dirty Devil Unit Agreement, Uintah County, Utah.

This indenture was executed by all required parties. The signatory parties have complied with Section 6 of the unit agreement. The instrument is hereby accepted effective as of October 9, 1986. Please advise all interested parties of the change in unit operator.

Sincerely,

Howard A. Lemm  
Chief, Branch of Fluid Minerals

Enclosure

RECEIVED  
NOV 14 1986

DIVISION OF  
OIL, GAS & MINING